Teaching Students with Reading Difficulties and Disabilities

A Guide for Educators

2004
# Table of Contents

1. Introduction ............................................................................................................................................. 7

2. Understanding Learning Disabilities
   2.1 National Definition ............................................................................................................................. 10
   2.2 Types of Learning Disabilities ........................................................................................................... 12
   2.3 Etiology ............................................................................................................................................... 14
   2.4 Diagnosis of Learning Disabilities ..................................................................................................... 15
   2.5 Student Strengths ............................................................................................................................... 18
   2.6 Skill Areas Associated with Learning Disabilities ............................................................................. 19

3. Reading Development and Instruction
   3.1 Critical Elements in Reading Instruction ............................................................................................ 35
       Reading Comprehension ......................................................................................................................... 36
       Language Cues and Conventions ........................................................................................................... 37
       Phonological Awareness and the Graphophonic Cueing System ............................................................ 38
       Phonics .................................................................................................................................................. 38
       Vocabulary Development and the Semantic Cueing System ................................................................... 39
       Sentence Patterns and the Syntactical Cueing System ......................................................................... 40
       Text Forms, Features, and the Textual Cueing System .......................................................................... 40
       Author’s Intent and the Pragmatic Cueing System ............................................................................. 40
       Reading Fluency ................................................................................................................................... 42

4. Written Expression Instruction
   4.1 Spelling ................................................................................................................................................ 46
   4.2 Handwriting ......................................................................................................................................... 52
   4.3 Composing Skills .................................................................................................................................. 53

5. Assessment and Intervention
   5.1 Assessment and Program Planning ....................................................................................................... 57

6. General Teaching Considerations
   6.1 The Adaptive Dimension ...................................................................................................................... 69
   6.2 Strategies and Effective Practices ......................................................................................................... 70
7. **Transition Planning**
   7.1 Key Principles of Effective Transitions ................................................................. 84
   7.2 Facilitating Effective Transitions ................................................................. 85

8. **Self-Advocacy**
   8.1 Challenges to Self-Advocacy ........................................................................ 88
   8.2 Facilitating Self-Advocacy ....................................................................... 89
   8.3 Conclusion .............................................................................................. 91

9. **Appendices**
   Appendix A – Strategies and Resources for Assessing and Teaching Reading Comprehension .95
   Appendix B – Strategies and Resources for Assessing and Teaching Phonemic Awareness.....105
   Appendix C – Phonics .................................................................................... 127
   Appendix D – Vocabulary Development ............................................................. 139
   Appendix E – Reading Fluency ..................................................................... 145
   Appendix F – Spelling .................................................................................... 159
   Appendix G – Written Expression ..................................................................... 163
   Appendix H – Personal Program Planning............................................................ 177
   Appendix I – Transition Planning...................................................................... 207
   Appendix J – Assistive Technology ..................................................................... 215

10. **References** .......................................................................................... 221

    Internet Resources ............................................................................................. 236
    Suggestions de ressources pour l’immersion ........................................................ 237
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INTRODUCTION

The purpose of this resource is to assist educators in teaching students who are experiencing significant difficulties, or who have a disability in reading and written expression. The document provides a general description of learning disabilities with a focus on the most common type of disability—reading disability (Kibby & Hynd, 2001). The terms reading disability, reading disorder, and dyslexia are used interchangeably in the literature. For the purposes of this document, the term reading disability will be used.

Proficient reading and writing skills are critical to success. If students are not competent readers, they are at risk for academic, behavioural, social and emotional difficulties. Students with learning disabilities have the potential to be successful academically and socially. Teachers can change the trajectory for children at risk for failure in reading by intervening early and providing explicit, intensive, and extensive instruction. The expectation is that students are taught listening, speaking, reading, writing, viewing, and representing skills throughout their school careers. When students continue to struggle with the acquisition of proficient literacy skills, appropriate adaptations need to be made to enable them to successfully meet the demands of the curriculum.

Success is dependent on educational programming that is suited to the student’s individual strengths, needs, and learning characteristics. This resource provides information on assessment, instruction, assistive technology, transition planning, and self-advocacy for students with reading and written expression difficulties and disabilities. Information is based on current research and effective practices in the education of students with reading disabilities. The suggested strategies build on Saskatchewan Learning curricula and supporting resources.

“Teaching reading to adolescents is both rewarding and frustrating; it’s a science and an art. It’s making mistakes and growing from them. It’s the most important thing I do as a teacher.”
(Beers, 2003, p. 22)
2

UNDERSTANDING LEARNING DISABILITIES

2.1 National Definition

2.2 Types of Learning Disabilities
   • Reading Disability
   • Written Expression Disorder
   • Mathematics Disorder
   • Nonverbal Learning Disability

2.3 Etiology
   • Neurobiological Differences
   • Genetic Factors
   • Other Risk Factors

2.4 Diagnosis of Learning Disabilities
   • Difficulties Associated with a Diagnosis
   • Parent Involvement

2.5 Student Strengths

2.6 Skill Areas Associated with Learning Disabilities
   • Receptive and Expressive Language Skills
   • Auditory/Phonological Processing
   • Visual Processing
   • Visual-Motor Processing
   • Attention
   • Memory
   • Metacognition
   • Study and Organizational Skills
   • Social Skills
2. UNDERSTANDING LEARNING DISABILITIES

The hallmark characteristic of a learning disability is an individual’s academic underachievement in reading, writing, and/or mathematics despite the presence of average to above average intelligence, appropriate instruction, regular school attendance, and favourable environmental factors. The Learning Disabilities Association of Canada (LDAC) provides a national definition of learning disabilities (see Figure 2.1).

Figure 2.1. Official National Definition of Learning Disabilities

“Learning Disabilities” refer to a number of disorders, which may affect the acquisition, organization, retention, understanding, or use of verbal or nonverbal information. These disorders affect learning in individuals who otherwise demonstrate at least average abilities essential for thinking and/or reasoning. As such, learning disabilities are distinct from global intellectual deficiency.

Learning disabilities result from impairments in one or more processes related to perceiving, thinking, remembering, or learning. These include, but are not limited to language processing, phonological processing, visual spatial processing, processing speed, memory and attention, and executive functions (e.g., planning and decision making).

Learning disabilities range in severity and may interfere with the acquisition and use of one or more of the following:

- oral language (e.g., listening, speaking, understanding);
- reading (e.g., decoding, phonetic knowledge, word recognition, comprehension);
- written language (e.g., spelling and written expression); and
- mathematics (e.g., computation, problem solving).

Learning disabilities may also involve difficulties with organizational skill, social perception, social interaction, and perspective taking.

Learning disabilities are lifelong. The way in which they are expressed may vary over an individual’s lifetime, depending on the interaction between the demands of the environment and the individual’s strengths and needs. Learning disabilities are suggested by unexpected academic under-achievement or achievement which is maintained only by unusually high levels of effort and support.

Learning disabilities are due to genetic and/or neurobiological factors or injury that alter brain functioning in a manner which affect one or more processes related to learning. These disorders are not due primarily to hearing and/or vision problems, socio-economic factors, cultural or linguistic differences, lack of motivation, or ineffective teaching, although these factors may further complicate the challenges faced by individuals with learning disabilities. Learning disabilities may co-exist with various conditions including attentional, behavioural and emotional disorders, sensory impairments, or other medical conditions.

For success, individuals with learning disabilities require early identification and timely specialized assessments and interventions involving home, school, community, and workplace settings. The interventions need to be appropriate for each individual’s learning disability subtype and, at a minimum, include the provision of:

- specific skill instruction;
- accommodations;
- compensatory strategies; and
- self-advocacy skills.

Learning disabilities vary in terms of impact and may involve many skill areas. Several subtypes of learning disabilities are outlined in Figure 2.2. Individuals with a learning disability may experience difficulties with auditory processing, visual processing and/or motor skills, attending, and remembering information. Social interactions and relationships may also be negatively impacted by a learning disability. Approximately 75 percent of students diagnosed with learning disabilities manifest social skill deficits that distinguish them from their non-learning disabled peers (Sridhar & Vaughn, 2001). Although there are general characteristics associated with each type of learning disability, it is important to remember that every student is unique.

**Figure 2.2. Learning Disabilities and Specific Subtypes**

Learning disabilities vary in terms of impact and may involve many skill areas. Several subtypes of learning disabilities are outlined in Figure 2.2. Individuals with a learning disability may experience difficulties with auditory processing, visual processing and/or motor skills, attending, and remembering information. Social interactions and relationships may also be negatively impacted by a learning disability. Approximately 75 percent of students diagnosed with learning disabilities manifest social skill deficits that distinguish them from their non-learning disabled peers (Sridhar & Vaughn, 2001). Although there are general characteristics associated with each type of learning disability, it is important to remember that every student is unique.
2.2 Types of Learning Disabilities

Reading Disability

An individual with a reading disability demonstrates difficulties in reading skills that are unexpected in relation to age, cognitive ability, quantity and quality of instruction, and intervention. The reading difficulties are not the result of generalized developmental delay or sensory impairment (Lundberg & Hoien, 2001; Mather & Goldstein, 2001).

Reading disability may be characterized by:
• difficulties in single word reading;
• initial difficulties decoding or sounding out words;
• difficulties reading sight words;
• insufficient phonological processing; that is, the understanding that sentences are comprised of words, words are made up of syllables, and syllables are made up of individual sounds or phonemes;
• expressive or receptive language difficulties; and
• difficulties with comprehension.

The processing difficulties may also be revealed in spelling and writing. Written expression disability and mathematics disability are commonly found in combination with a reading disability (American Psychiatric Association, DSM-IV-TR, 2000).

For students with a reading disability, the reading difficulties are persistent. Even though an individual’s reading ability may eventually reach an acceptable performance, it often continues to be characterized by a slower reading rate.

Written Expression Disorder

Individuals with a written expression disorder have significant difficulties in using writing to communicate meaning. They may have trouble formulating sentences, organizing paragraphs, using correct grammar and punctuation. They may have difficulty generating ideas to write about and can be slow to get their thoughts on paper. Their writing may be disorganized and incoherent and they may display excessively poor handwriting. Their ability to spell is often poorly developed. The difficulties in written expression significantly interfere with academic achievement or with daily living activities that require writing skills (American Psychiatric Association, DSM-IV-TR, 2000; Payne & Turner, 1999).
Mathematics Disorder

Mathematics disorder refers to problems with the language component of mathematics: understanding concepts, decoding written problems into mathematical symbols, and following a sequence of steps. Students diagnosed with a disability in mathematics may have a difficult time recalling and understanding basic facts and often cannot remember the multiplication tables despite spending hours trying to memorize them. Reading mathematical signs and copying numbers or figures correctly may be difficult for these students. They may also have difficulties with direction and orientation (American Psychiatric Association, DSM-IV-TR, 2000; Payne & Turner, 1999).

Nonverbal Learning Disability

Nonverbal learning disabilities (NLD) are not as well known or understood as language-based learning disabilities. In order to have a diagnosis of NLD a student must have a significant number of the strengths and weaknesses of the disorder (Whitney, 2002). A student with a nonverbal learning disability would demonstrate some of the following characteristics (Rourke, 2001):

Strengths in:
- using words in an adult fashion;
- large vocabularies;
- well-developed verbal skills;
- auditory perception;
- simple motor skills; and
- memorizing information.

Difficulty with:
- interpreting and comprehending nonverbal cues;
- the functional use of language in everyday conversations;
- social perception, social judgement, and social interactions;
- spatial orientation;
- motor coordination;
- organizing materials;
- encountering new information, situations, and/or transitions;
- seeing the big picture; and
- a logical sense of time.

During the school years a child with nonverbal disability may experience difficulty in mathematics, science, printing and writing, logical ordering and sequencing, organizing information, and nonverbal social skills (Rourke, 1989; Thompson, 1997).

Teachers can support students with a nonverbal disability by:
- breaking down complex tasks into steps;
- providing visual organizers that outline material to be covered;
• providing schedules and notifying students when there are changes;
• using discussion formats rather than lectures;
• assisting students to interpret social cues such as facial expressions and tones of voice; and
• preparing students for transitions (Whitney, 2002).

2.3 Etiology

Research on possible causes and the exact nature of learning disabilities is ongoing. The literature identifies several possible contributing factors. These include neurobiological differences, genetic factors, and other risk factors.

**Neurobiological Differences**

Through neuroimaging techniques it has been determined that there are subtle structural and functional brain differences in individuals with learning disabilities (Kibby & Hynd, 2001). Brain imaging techniques have identified neural pathways involved in reading. The parieto-temporal system and Bocca’s area are located on the left side and the front of the brain respectively. These areas are linked to analyzing words and linking sounds to letters. Beginning readers and people with a reading disability show most activity in these areas.

As readers become fluent they show most activity in the occipito-temporal system located at the back of the brain. This area is a hub of activity, receiving information about how a word looks, how it sounds, and what it means. It allows readers to decode automatically, which is necessary for fluency. Those with reading disabilities demonstrate a pattern of underactivity in this area of the brain. This is true for people with reading disabilities of all languages and all ages (Shaywitz, 2003).

**Genetic Factors**

Developmental differences of the brain associated with learning disabilities are thought to be influenced by genetic factors. Genetic markers for reading disabilities have been identified on chromosomes 6 and 15 (Kibby & Hynd, 2001).

Learning disabilities may run in families. Parents of a student with a learning disability may indicate that they had similar learning patterns in school. However, it is important to remember that a parent’s learning disability may manifest differently in the child.
Other Risk Factors

Other possible contributing factors include problems during pregnancy caused by the use of tobacco, alcohol, and/or other drugs. Mothers who smoke may be more likely to have low birth weight babies who may be at risk for a variety of problems. Alcohol and drugs consumed by a mother during pregnancy transfer directly to the fetus. Environmental toxins are also being investigated as possible causes of learning disabilities (Sousa, 2001).

2.4 Diagnosis of Learning Disabilities

Difficulties Associated with a Diagnosis

The diagnosis of a learning disability is not a simple process nor is it an exact science. Differentiating between learning problems and learning disabilities can be complicated. Students may present with academic and social difficulties for many reasons.

Learning disabilities have a neurological basis, and must be differentiated from normal variations in academic attainment and difficulties due to:

- lack of opportunity;
- incorrect instruction;
- cultural factors;
- impoverished or chaotic living environment; or
- disruptive behaviours.

Learning disabilities are also not due primarily to:

- sensory impairment (visual or hearing);
- physical challenges (motor);
- cognitive disabilities;
- emotional disturbance;
- environmental influence (environmental disadvantage); or
- cultural or language differences.

Sorting through the myriad of possibilities contributing to a student’s inability to acquire proficient reading skills is complex. As a result, information is gathered from parents, teachers, speech pathologists, psychologists, and other professionals in order to assist in the process of a formal diagnosis. The purpose of a diagnosis is to better understand the abilities and needs of students and to better inform instruction. It is important to note that not every assessment will result in a diagnosis.

Traditionally, a discrepancy model has been used to make the diagnosis of a learning disability. The discrepancy is based on
results from intelligence and academic achievement tests. An analysis is made of the discrepancy between the student’s obtained scores on the intelligence and achievement tests. The essence of the discrepancy model is that academic achievement performance falls well below expectations based on intelligence. If a significant discrepancy is found, then a diagnosis of a learning disability is made.

According to many researchers (Feifer & De Fina, 2000; Lyon, et al., 2001; National Association of School Psychologists, 2003; Siegel, 2003), there are numerous concerns regarding the discrepancy formula.

- It is unclear which IQ score should be used with the achievement test to establish a discrepancy (i.e., the Verbal, Performance, or Full Scale IQ score).
- There is no universal agreement as to what the discrepancy should be (e.g., 1, 1.5, or 2 standard deviations).
- The discrepancy formula has been inconsistently interpreted and/or misinterpreted.
- A discrepancy formula precludes early identification due to the inherent problems associated with standardized tests. For example, a 6-year-old child can get only two correct answers on a standardized reading test and still obtain a standard score within the average range. Thus, even though a child’s skills may be clearly delayed, the obtained score on the standardized test may not indicate there is a problem.
- A discrepancy model promotes a “wait and fail” policy that delays interventions. If a teacher is waiting for a diagnosis before interventions are put in place, valuable learning and teaching time is lost.
- Research has shown that intelligence test scores may decrease over time with children who are not reading (Stanovich, 2000).

As a result of recent research, there is a movement away from the ability-achievement discrepancy model and a move toward the diagnostic criteria of significant underachievement and insufficient response to intervention (National Association of School Psychologists [NASP], 2003). The purpose of assessment should be early identification of students who are at risk for having difficulties learning to read. The ultimate goal should be prevention of reading problems and the provision of early intervention for students who are experiencing difficulties (Lyon, et al., 2001). Many psychologists have already made a move toward a change in the diagnostic process.
The educational team members (e.g., Speech Language Pathologist, Psychologist, and Learning Assistance Teacher) use a variety of tests to assess intelligence, academic achievement, visual perception, memory, and language processing. The data from the formal and informal assessment tools is analyzed in addition to information from the student’s history. This may include:

- student’s family and school history;
- attendance records;
- type of instruction received;
- duration of intervention;
- environmental factors; and
- other aspects that may have an impact on the child (e.g., trauma, other disorders such as ADHD, FASD, anxiety disorder, depression, medical conditions).

The diagnostic process is complex. Psychologists use the assessment information, diagnostic criteria, and their best professional judgement to make the decision whether an individual has a reading disability.

The diagnosis of a learning disability is important for many reasons. It provides teachers and parents with specific information about an individual, and guides appropriate interventions. A diagnosis verifies that a student has a disability and is not just lazy or not trying hard enough. The diagnosis may enhance the individual’s understanding of their disability as a wealth of literature exists to substantiate the difficulties they are experiencing. The diagnosis may also give students access to many services and programs such as employability assistance and supports in post-secondary education. Details of available programs are outlined in Appendix I. Although the diagnosis is helpful for many reasons, it is important to emphasize that teachers should not wait for a formal diagnosis prior to providing interventions for students.

As previously indicated, there are many effective informal assessment measures, interventions, and adaptations a classroom teacher can implement prior to a formal diagnosis of a learning disability. It is critical that children are identified early on in their school career and appropriate interventions are promptly put in place. As Lyon, et al. (2001) indicate, without early intervention, the poor first grade reader almost invariably becomes a poor middle school reader, high school reader, and adult reader.
Parent Involvement

All families react differently to the diagnosis of their child. Having a child with a learning disability may be very challenging. It is important to recognize that the reaction experience of each family is unique. Information and community resources such as the Learning Disabilities Association of Saskatchewan may assist families at this time. Continued home-school communication is increasingly important as the team gains greater understanding of the strengths and needs of the student. The parents’ role is critical. Parents represent long-term advocacy and support for their child and must have a meaningful, integral, and authentic role as a team member.

2.5 Student Strengths

Educators recognize that students learn in different ways and have unique patterns of strengths and needs. For example, a student who is not doing well in reading may show an aptitude for other areas such as physical education, drama, or mathematics. Each student with a learning disability presents with his/her own learning style, needs, strengths, and interests. However, educators and parents may need to assist the student in identifying strengths and pursuing interests.

It is important for students with learning disabilities to identify an interest, hobby, or an area in which they can excel. Students need to see themselves as having something important to say, and to have an activity in which they feel successful and view themselves as “winners”.

It is also important for students to have a clear understanding of their learning ability and disability. This understanding can provide the basis for building a positive self-image that will support the development of a competent and successful person. It may be helpful for parents and students to be aware of the many well-known successful people who have been diagnosed with a learning disability. Some of these include the businessman, Charles Schwab; the actor, Tom Cruise; the comedian, Jay Leno; the singer, Jewel; and the author of Captain Underpants, Dav Pilkey. “Let the student’s strengths and not the disability define who they are as a person” (Shaywitz, 2003).
2.6 Skill Areas Associated with Learning Disabilities

There are various skill areas that may be affected when a learning disability is present. A student with a learning disability may experience difficulty in one or more of the areas outlined in Figure 2.3.

**Receptive and Expressive Language Skills**

A solid foundation in oral language is important for the development of literacy skills. The ability to understand the language you hear and to clearly express yourself are fundamental for the development of reading and writing skills. Students identified with a learning disability may present with receptive and expressive language deficits (see Table 2.1).
Table 2.1. Receptive and Expressive Language and Associated Difficulties

<table>
<thead>
<tr>
<th>Receptive and Expressive Language</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Listening and Speaking</strong></td>
<td>• expressive vocabulary;</td>
</tr>
<tr>
<td></td>
<td>• using connecting words in speech (e.g., and, or, but);</td>
</tr>
<tr>
<td></td>
<td>• explaining ideas;</td>
</tr>
<tr>
<td></td>
<td>• understanding idioms and figurative language (e.g., “Lunch was on the house”);</td>
</tr>
<tr>
<td></td>
<td>• understanding multiple meanings of words (e.g., “run”, “set”);</td>
</tr>
<tr>
<td></td>
<td>• understanding and using compound and complex sentence structures;</td>
</tr>
<tr>
<td></td>
<td>• telling a story or talking about an incident in sequence (first, next, last); and</td>
</tr>
<tr>
<td></td>
<td>• the pragmatic aspects of language (e.g., turn taking, repairing breakdowns, introducing a topic, maintaining a topic).</td>
</tr>
</tbody>
</table>

Note: these learning characteristics may also be associated with learning a second dialect or language.

Adapted from Alberta Education (1996).

**Auditory/Phonological Processing:**

The ability to comprehend oral information is critical for the development of literacy skills. As language skills develop, children first listen and speak, then read and write. Thus, reading and writing skills are based on one’s receptive and expressive language.

If children have difficulty processing what they hear, it makes all aspects of literacy development difficult (see Table 2.2). For example, if one cannot perceive and discriminate individual words within a question, it is difficult to respond. To better understand this difficulty, it may be helpful to consider what it is like to listen to a person speaking another language. At first, it is difficult to know where one word begins or ends. The language may be perceived as a string of sounds. It might be difficult to readily detect the slight differences between words (e.g., ship/snipe, leaf/leave). This is similar to the experiences of someone with an auditory processing disorder. The hearing acuity is intact; however, the individual may not readily pick up the auditory differences with which they are bombarded on a daily basis.
Teaching Students with Reading Difficulties and Disabilities: A Guide for Educators

Chapter 2

Table 2.2. Auditory/Phonological Processing and Associated Difficulties

<table>
<thead>
<tr>
<th>Auditory/Phonological Processing</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perception – attending to and interpreting auditory information</td>
<td>• phonological processing (the ability to perceive and understand that speech is made up of sentences, words, syllables, and sounds); • acquiring phonemic awareness skills (rhyming, blending, segmenting, deleting sounds); • identifying initial, medial, and final sounds in words; and • articulation.</td>
</tr>
<tr>
<td>Discrimination – recognizing the differences between individual phonemes</td>
<td>• discriminating similar sounding letters (e.g., /b/ and /p/) (/f/ and /v/) (/d/ and /t/); and • hearing the differences in words such as “bat”, “bit”, “bet”.</td>
</tr>
<tr>
<td>Closure – blending sounds</td>
<td>• blending and segmenting sounds and/or syllables within words; and • reading nonwords.</td>
</tr>
<tr>
<td>Figure-Ground – focusing on the dominant sound (teacher’s voice) and ignoring background sounds (buzz from lights or fan)</td>
<td>• responding to oral questions; • taking notes during lectures, films, and documentaries; and • recalling the names of objects, letters, and numbers.</td>
</tr>
<tr>
<td>Memory – recalling information presented verbally</td>
<td>• mastering the essential features of grapheme (letter)/phoneme (sound) associations.</td>
</tr>
<tr>
<td>Sequential-Memory – reproducing information in correct order</td>
<td>• remembering the order of sounds in words (e.g., “flybutter” for “butterfly”) (“membelia” for “memorabilia”); • imitating or pronouncing multi-syllabic words (“ambulance”, “spaghetti”, “exacerbate”); and • processing and sequencing the information heard.</td>
</tr>
</tbody>
</table>

Adapted from Feifer & De Fina (2000); Mather & Goldstein (2001); McCarthy & Warrington (1990); New Brunswick Department of Education (1999); Winzer (1996).

“My teacher used to say, ‘Sound it out’, when I couldn’t read a word in school. But I couldn’t then... If I could have, I would have.” (Weinstein, 2003, p. 96)
Visual Processing

Some students with a reading disability may have difficulty with visual processing (see Table 2.3). These difficulties exist in the absence of a visual impairment.

Visual processing refers to organizing, analyzing, and understanding a visual message. In order to read, sounds must be connected to abstract visual symbols (the alphabet). The alphabet must be learned and remembered. The subsequent ability to perceive and to remember a sequence of letters is necessary in the process of learning to read.

Table 2.3. Visual Processing and Associated Difficulties

<table>
<thead>
<tr>
<th>Visual Processing</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perception – attending to and interpreting visual information</td>
<td>• identifying letters and numbers; and • attending to signs in math.</td>
</tr>
<tr>
<td>Discrimination – discriminating between letters and words that look alike (e.g., b/d, p/q, nip/hip)</td>
<td>• reversing letters or numbers after the age of seven (e.g., “b” for “d”, “15” for “51”); • transposing (saw/was, private for private); and • inverting letters (w/m, n/u).</td>
</tr>
<tr>
<td>Closure – assembling puzzles, closing spaces between letters (e.g., rab-bit)</td>
<td>• learning how to form letters; and • forming letters correctly.</td>
</tr>
<tr>
<td>Figure-Ground – focusing on the foreground and ignoring the background</td>
<td>• copying from the board and/or textbook; • tracking (students may use finger to track when reading); • completing and/or using a separate answer sheet; and • locating specific words on a page or in a dictionary.</td>
</tr>
<tr>
<td>Memory – copying visual pattern</td>
<td>• remembering how letters look; • writing without prompting; and • remembering basic sight words.</td>
</tr>
<tr>
<td>Sequential-Memory – remembering common words and strings of letters in words</td>
<td>• remembering letter sequences; • spelling (upper elementary students continue to have a tendency to spell words how they sound rather than how they look); and • writing at an appropriate rate.</td>
</tr>
</tbody>
</table>

Adapted from Feifer & De Fina (2000); Mather & Goldstein (2001); McCarthy & Warrington (1990); New Brunswick Department of Education (1999); Rourke & Del Dotto (2001); Winzer (1996).
Visual-Motor Processing

One’s ability to take in information through the visual channel and to combine it with motor responses is important for gross and fine motor skills. Gross motor integration involves coordinating the large muscle groups used to perform activities such as running, jumping, catching, throwing, and to maintain postural control. Fine motor integration involves coordinating small muscles in the fingers, hands, and wrists used to manipulate and control objects and tools.

Difficulty with visual motor processing may directly impact writing. Students may have difficulty copying from a board or book, writing within the lines, and may erase excessively. Individuals may also experience difficulties with spatial orientation and relationships. For example, maneuvering through spaces and organizing materials may be problematic. Table 2.4 outlines visual-motor difficulties that may be associated with a learning disability.

Table 2.4. Visual-Motor Processing and Associated Difficulties

<table>
<thead>
<tr>
<th>Visual-Motor Processing</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
</table>
| **Gross Motor Skills**  | • learning physical activities requiring coordination (riding a bike, catching a ball); and  
                          | • walking or running (having an awkward gait). |
| **Fine Motor Skills**   | • avoiding bumping into things;  
                          | • using small objects and tools (scissors, fasteners, tying shoes);  
                          | • learning to draw or print; and  
                          | • holding a crayon, pencil, or pen correctly. |
| **Spatial Processing Skills** | • writing neatly;  
                              | • sensing direction (north, south, east, and west);  
                              | • orientating left-right and/or up-down;  
                              | • going from place to place (finding classrooms in a high school);  
                              | • organizing belongings; and  
                              | • organizing work on paper: (columns, paragraphs, spacing). |

Adapted from Alberta Education (1996); Mather & Goldstein (2001).
Attention

Attending is the ability to filter out information in order to maintain attention to the task at hand. Some students have difficulty attending to important information (see Table 2.5). Attention and concentration difficulties may reduce reading rate. If a student does not attend to new information, there is little chance of remembering it later. Students with attention difficulties may also demonstrate varying degrees of hyperactivity and/or impulsiveness.

Table 2.5. Attention and Associated Difficulties

<table>
<thead>
<tr>
<th>Attention</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Focusing Attention</strong> – coming to attention</td>
<td>• settling down after recess and getting back to work;</td>
</tr>
<tr>
<td></td>
<td>• avoiding daydreaming;</td>
</tr>
<tr>
<td></td>
<td>• remaining focused; and</td>
</tr>
<tr>
<td></td>
<td>• starting tasks.</td>
</tr>
<tr>
<td><strong>Selective Attention</strong> – focusing on the most important stimulus</td>
<td>• selecting the relevant stimulus (e.g., listening to students whispering, lights buzzing, or fan humming from the overhead projector instead of listening to the teacher’s voice); and</td>
</tr>
<tr>
<td></td>
<td>• attending to important or relevant details.</td>
</tr>
<tr>
<td><strong>Sustaining Attention</strong> – concentrating for a reasonable period of time</td>
<td>• completing assignments;</td>
</tr>
<tr>
<td></td>
<td>• attending for an extended period of time;</td>
</tr>
<tr>
<td></td>
<td>• following through on instructions; and</td>
</tr>
<tr>
<td></td>
<td>• completing assignments punctually.</td>
</tr>
<tr>
<td><strong>Dividing Attention</strong> – completing two tasks at one time</td>
<td>• listening to the teacher and taking notes at the same time;</td>
</tr>
<tr>
<td></td>
<td>• listening to instructions and completing a task at the same time (e.g., science experiment, wood working, or home economics class);</td>
</tr>
<tr>
<td></td>
<td>• organizing materials, activities, time; and</td>
</tr>
<tr>
<td></td>
<td>• remembering instructions.</td>
</tr>
</tbody>
</table>

Adapted from Alberta Education (1996).
Memory

Information is received through the senses and when perceived and attended to, it can be held for a short time in working (short-term) memory. Depending upon its relevance and the way it is organized it may be moved and stored in long-term memory.

Short-term memory contains thoughts for the moment. When working memory is activated through strategies such as chunking, rehearsal, and elaboration, the capacity and duration for storing this information may be increased. In addition, working memory capacity may also be expanded if some of the mental processes are automated.

If students use only their working memory to decode print, they cannot comprehend well what they are reading. In order to read and comprehend fluently, it is necessary that decoding become automatic. If the information is relevant, interesting, and well organized it may be placed in long-term memory for permanent storage.

The active processes used to organize, to relate the new information to prior knowledge, and to store it in a meaningful way have implications for how easily the learner will be able to retrieve the information for future use (Alberta Education, 1996) (see Table 2.6). Teachers may report that a student with a reading disability appears to know the information one day but can’t remember it another. The difficulty may not always represent memory as much as the way the information is processed. Working memory allows us to use our memory systems flexibly. It enables us to hold on to information by rehearsing it in our minds, to relate that information to prior knowledge, and to plan our future actions.

Skill Areas:
- Receptive and Expressive Language
- Auditory/Phonological Processing
- Visual Processing
- Visual-Motor Processing
- Attention
- Memory
- Metacognition
- Study and Organizational Skills
- Social Skills
Chapter 2

Adapted from Alberta Education (1996).

### Table 2.6. Memory and Associated Difficulties

<table>
<thead>
<tr>
<th>Memory</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Auditory Short- and Long-Term Memory</strong></td>
<td>• recalling what was just read;</td>
</tr>
<tr>
<td></td>
<td>• recalling rote information (e.g., days of the week, months of the year, mathematical facts);</td>
</tr>
<tr>
<td></td>
<td>• memorizing poems, songs, passages (e.g., speeches, lines in a play);</td>
</tr>
<tr>
<td><strong>Visual Short and Long-Term Memory</strong></td>
<td>• remembering concepts or information from one day to the next;</td>
</tr>
<tr>
<td></td>
<td>• repeating the same errors;</td>
</tr>
<tr>
<td></td>
<td>• remembering familiar material but forgetting important details;</td>
</tr>
<tr>
<td></td>
<td>• retrieving information quickly; and</td>
</tr>
<tr>
<td></td>
<td>• timed tasks (oral or written).</td>
</tr>
</tbody>
</table>

Metacognition

Efficient learning involves the active control, coordination, and monitoring of learning processes and strategies. Campione, Brown & Ferrara (1982, p. 436) state that:

> Metacognition is knowledge about oneself as a learner, knowledge about the task, and knowledge about the skills and strategies needed to perform the task. Executive control is the process of selecting, monitoring and overseeing the effectiveness of learning based on feedback, and regulating learning by activating appropriate strategies.

In simplest terms, metacognition is thinking about your thinking. It serves the function of quality control. Metacognition is involved in the decisions learners make such as what to attend to; what is already known that might apply in a new situation; what memory strategy might be appropriate to organize, store, and retrieve the new information; and whether the first plan is working effectively. The learner considers questions such as: Do we need to change plans? Is it a good idea? Is it working?

Metacognitive functioning also involves coordinating the processes and strategies involved in learning (see Table 2.7). An important aspect of this coordination is the activation of processes to maximize generalization. Generalization involves recognizing that a strategy, information, or behaviour found useful in a familiar situation can be applied to a new situation. Transfer involves modifying the original strategy, information, or behaviour to fit a new situation. As this transfer becomes more automatic, a student has greater capacity for higher level thinking.
Table 2.7. Metacognition and Associated Difficulties

<table>
<thead>
<tr>
<th>Metacognition</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
</table>
| **Active Control, Coordination, and Monitoring of Learning Processes and Strategies** | • defining problems;  
• sorting relevant from irrelevant information;  
• generating alternative approaches to problem solving;  
• changing approaches when one doesn't work;  
• actively using strategies;  
• drawing on past knowledge and experience to solve new tasks (generalizing);  
• making predictions;  
• self-monitoring;  
• organizing thoughts and ideas;  
• being flexible in approaching problems;  
• planning;  
• systematically following through in executing plans; and  
• evaluating performance |
| **Generalizing and Transfer** | • applying previously learned information to new situations—generalizing and building bridges between past and present learning;  
• developing an adequate degree of original learning;  
• identifying the critical and relevant features of a situation;  
• identifying similarities among environments, actions, and feelings; and  
• associating between two learnings. |

Adapted from Alberta Education (1996); Mather & Goldstein (2001); Sternberg & Spear-Swerling (1999); Winzer (1996).
Study and Organizational Skills

The ability to organize oneself and use effective study skills is related to metacognitive and attention skills. Stopping and thinking about how you learn is important in the process of getting organized and preparing for assignments and examinations. Efficient learning is enhanced by the ability to organize materials and information and to complete tasks systematically. Students who are learning disabled often have difficulty in this area (see Table 2.8).

Table 2.8. Study and Organization Skills and Associated Difficulties

<table>
<thead>
<tr>
<th>Study and Organization Skills</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metacognitive and Attention Skills</td>
<td>• organizing materials and work environment (books, locker, desk);</td>
</tr>
<tr>
<td></td>
<td>• keeping track of assignments and/or materials;</td>
</tr>
<tr>
<td></td>
<td>• bringing assignments home or back to school;</td>
</tr>
<tr>
<td></td>
<td>• being punctual and/or keeping appointments;</td>
</tr>
<tr>
<td></td>
<td>• completing highly structured work (essay);</td>
</tr>
<tr>
<td></td>
<td>• setting goals;</td>
</tr>
<tr>
<td></td>
<td>• prioritizing;</td>
</tr>
<tr>
<td></td>
<td>• judging and managing time;</td>
</tr>
<tr>
<td></td>
<td>• planning and scheduling; and</td>
</tr>
<tr>
<td></td>
<td>• using strategies for studying and test-taking.</td>
</tr>
</tbody>
</table>

Adapted from Alberta Learning (1996); New Brunswick Department of Education (1999).

Social Skills

Socially competent individuals possess well-developed receptive and expressive language skills, a positive self concept, and a sense of control over their lives. Nonverbal communication skills (reading facial expressions and body language), paralinguistic information (sensitivity to the tone and intensity of a voice), attending skills, and impulse control also influence social skills.

Individuals with a learning disability typically have experienced academic struggles and feelings of failure. This negatively impacts self-concept and contributes to difficulties in social skills (see
Table 2.9). It is imperative that attention is given to the area of social skill development, peer group dynamics, and building on individual student strengths.

### Table 2.9. Social Skills and Associated Difficulties

<table>
<thead>
<tr>
<th>Social Skills</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Paralinguistic Skills</strong></td>
<td>• interpreting auditory cues such as pitch, intensity, and rate of speech.</td>
</tr>
<tr>
<td><strong>Nonverbal Communication Skills</strong></td>
<td>• interpreting facial expressions, body language, gestures, and proximity.</td>
</tr>
<tr>
<td><strong>Attention Skills</strong></td>
<td>• maintaining concentration when interacting with others.</td>
</tr>
</tbody>
</table>
| **Pragmatic Language Skills**     | • following a conversation and responding in an appropriate manner;  
• taking the perspective of another person; and  
• repairing communication breakdowns.                                                                                                                                  |
| **Self-Concept**                  | • maintaining positive self-esteem;  
• not submitting to peer pressure;  
• taking risks; and  
• not becoming too passive or aggressive.                                                                                                                                      |
| **Impulse Control**               | • controlling emotions  
(e.g., anxiety, anger, happiness).                                                                                                                                                                                           |
| **Metacognitive Skills**          | • solving social problems;  
• generalizing or modifying social skills that have been learned;  
• adapting to different social environments  
(e.g., school, church, party, soccer game); and  
• understanding the implications of cause and effect.                                                                                                                                 |

Adapted from Alberta Learning (1996).
In summary, students with learning disabilities may have difficulties with receptive and expressive language skills, as well as with auditory/phonological, visual, and visual-motor processing. They may also have deficits in the areas of attention, memory, metacognition, study and organizational skills, and social skills.

It is important to remember that every student diagnosed with a learning disability will present with his/her own unique learning profile. The degree to which students experience difficulties will vary. The areas of strengths and interests will also vary. It is important to determine and enhance supports for each student based on the individual’s strengths and needs.
3.1 Critical Elements in Reading Instruction

- Reading Comprehension
- Language Cues and Conventions
- Phonological Awareness and the Graphophonic Cueing System
- Phonics
- Vocabulary Development and the Semantic Cueing System
- Sentence Patterns and the Syntactical Cueing System
- Text Forms, Features, and the Textual Cueing System
- Author’s Intent and the Pragmatic Cueing System
- Reading Fluency
3. **Reading Development and Instruction**

Reading is a complex process made up of several interlocking skills and processes (Tankersley, 2003). These skills and strategies are employed before, during, and after reading.

Reading is a process by which the reader makes personal connections with a text to construct meaning. Reading and responding to a text are integral parts of language learning. Effective readers employ a wide repertoire of meaning-making (comprehension) strategies that they can deploy independently with a range of texts. Effective readers understand and remember what they read. They can summarize and discuss the content and demonstrate their comprehension of the text. They can analyze and evaluate what they have read. Effective readers recognize words quickly and efficiently. They demonstrate high word recognition. They possess strong fluency skills. They read with good expression, intonation, pitch, and phrasing (see Table 3.1).
### Table 3.1. Sample Reading Continuum

<table>
<thead>
<tr>
<th>Emerging Phase (K-1)</th>
<th>Early Developing Phase (Grade 1)</th>
<th>Developing Phase (Grades 1-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student knows:</strong></td>
<td><strong>Student knows:</strong></td>
<td><strong>Student knows:</strong></td>
</tr>
<tr>
<td>• Illustrations carry a message that can be “read”.</td>
<td>• What can be said can be written and read.</td>
<td>• Reading is a process of constructing meaning.</td>
</tr>
<tr>
<td>• Print carries a message.</td>
<td>• Print is read from top to bottom, left to right.</td>
<td>• Reading can be done for different reasons or purposes.</td>
</tr>
<tr>
<td>• Print in the environment carries messages in signs, labels, and logos.</td>
<td>• Words such as “letter”, “word”, and “sentence” are used to describe print features.</td>
<td>• Readers use a variety of strategies.</td>
</tr>
<tr>
<td>• Stories can be remembered and retold.</td>
<td>• Texts are written in a variety of formats.</td>
<td><strong>Student:</strong></td>
</tr>
<tr>
<td><strong>Student:</strong></td>
<td><strong>Student:</strong></td>
<td><strong>Student:</strong></td>
</tr>
<tr>
<td><strong>shows interest and enjoyment in looking at books and listening to stories</strong></td>
<td><strong>shows interest in the meaning of words in books</strong></td>
<td><strong>reads for a variety of purposes</strong></td>
</tr>
<tr>
<td><strong>holds book right-side up and turns pages from right to left</strong></td>
<td><strong>reads back short experience stories written by teacher</strong></td>
<td><strong>relates previous experience and knowledge to what is read</strong></td>
</tr>
<tr>
<td><strong>shows where (physically) the story starts and ends</strong></td>
<td><strong>follows a line of print on experience chart as it is read</strong></td>
<td><strong>visualizes what is being read</strong></td>
</tr>
<tr>
<td><strong>imitates reading behaviours (e.g., turning pages and telling a story using the pictures)</strong></td>
<td><strong>follows a line of print in enlarged text</strong></td>
<td><strong>predicts and confirms content, events, and outcomes</strong></td>
</tr>
<tr>
<td><strong>uses “book language” (e.g., Once upon a time ... Then ...) The end</strong></td>
<td><strong>understands concept of word</strong></td>
<td><strong>makes and confirms inferences</strong></td>
</tr>
<tr>
<td><strong>enjoys hearing favourite stories over and over again</strong></td>
<td><strong>recognizes own name in print and a few high frequency words</strong></td>
<td><strong>draws conclusions</strong></td>
</tr>
<tr>
<td><strong>recognizes some letters or words (e.g., own name, classroom labels, signs, and other environmental print)</strong></td>
<td><strong>understands concept of letter (matches capital letters with lower case letters)</strong></td>
<td><strong>questions and adjusts strategy when meaning is unclear</strong></td>
</tr>
<tr>
<td><strong>Notes:</strong></td>
<td><strong>Notes:</strong></td>
<td><strong>Notes:</strong></td>
</tr>
</tbody>
</table>

From *English language arts: A curriculum guide for the elementary level (K-5)* (p. 142) by Saskatchewan Learning, 2002b, Regina, SK: Author.

Note: please refer to *English Language Arts: A Curriculum Guide for the Elementary Level (K-5)*, pages 143 and 144 for sample checklists developed from this continuum. It is anticipated that teachers will adapt these checklists and develop additional assessment forms to gather appropriate data regarding their students' needs and strengths.
### Sample Reading Continuum

#### Extending Phase
**(Grades 6-9)**

**Student knows:**
- Reading is a means of learning and enjoyment.
- Reading requires different strategies and rates depending on purpose and difficulty of the text.

**Student:**
- reads for information, pleasure, and personal interest
- reads silently for extended periods
- reads narrative and expository texts aloud with correct pacing, intonation, and expressions
- uses key reading strategies with efficiency including:
  - previewing
  - making and confirming predictions
  - making connections to prior knowledge and experiences
  - attending to the pragmatic, textual, syntactic, semantic, and graphophonic cues
  - monitoring understanding and using self-correction strategies
  - recognizing main ideas and relevant supporting details
  - reflecting on and assessing meaning as understood
  - adjusts reading rate according to purpose, familiarity with content, and difficulty
  - discerns author's intent
  - comprehends literal and inferential meaning
  - synthesizes and summarizes ideas from multiple passages or paragraphs
  - compares (and contrasts) texts
  - responds to comprehension questions with appropriate support
  - reads and follows written directions
  - interprets the denotative and connotative meanings of words
  - identifies the literal and figurative meanings of words
  - recognizes imagery, including words, phrases, and sentences that express sensory impression, feelings, and emotions
  - identifies strengths and areas for improvement in reading

**Notes:**

#### Specialized Phase
***(Grades 10-12)***

**Student knows:**
- Effective readers use a range of reading strategies before, during, and after interacting with texts to comprehend, interpret, evaluate, and appreciate what is said.
- Reading a range of text —prose fiction and nonfiction, drama and poetry—extends one’s understanding of self and of the world.
- Different texts share our view of the world and shape us personally.

**Student:**
- reads to clarify and extend own thinking
- reads a wide range of texts to gain insights into personal and social worlds
- reads for pleasure and personal interest
- uses a range of reading strategies including:
  - making connections
  - finding meaning
  - making and confirming predictions
  - making and confirming inferences
  - attending to the pragmatic, textual, syntactic, semantic, and graphophonic cues found in texts
  - reflecting and evaluating
  - skims, scans, or reads closely according to purpose
  - relates literary works and authors to universal themes and issues and to personal experiences
  - forms and defends personal judgements about a passage or text
  - analyzes and evaluates the effectiveness of a text based on a variety of criteria
  - supports important ideas and viewpoints through accurate and detailed reference to the text
  - recognizes major forms and techniques in texts
  - discerns social comments made in written works
  - considers social and historical contexts for authors and their works
  - analyzes the ways in which tone, mood, irony, point of view, and author’s style achieve specific purposes
  - evaluates the accuracy and usefulness of information and ideas
  - outlines, paraphrases, and summarizes ideas
  - compares (and contrasts) texts
  - draws conclusions and makes generalizations from texts
  - gathers, evaluates, and synthesizes data from a range of texts
  - identifies strengths and areas for improvement in reading

**Notes:**

From *English language arts: A curriculum guide for the middle level (grades 6-9)* draft (p. 124) by Saskatchewan Learning, 2003b, Regina, SK: Author.
3.1 Critical Elements in Reading Instruction

It is important for teachers to understand the critical elements of reading instruction. Students who have a reading disability will require intensive direct instruction. The critical elements of reading instruction include:

- strategies for reading comprehension;
- strategies for building meaning using the cues and conventions of language (including phonological awareness, phonemic awareness, phonics, vocabulary development, awareness of sentence structures, awareness of text structures and organizational patterns, and the pragmatics of text); and
- reading fluency.

These elements are not taught in isolation. Saskatchewan Learning English language arts curricula focus on teaching students through an integrated process to help them understand the relationship among the elements and how they relate to the ultimate goal of reading (see Figure 3.1). Expressive and receptive oral language provide the foundation for these elements. These critical elements must be explicitly and intensively taught if students are to become proficient readers and writers (Lyon, et al., 2001; Saskatchewan Learning, 2002b; Stanovich, 2000). Students who are at risk for reading failure require direct teaching through a systematic format.

**Figure 3.1. Critical Elements in Reading Instruction**

These elements are taught through an integrated, balanced approach and not in isolation. Adapted from Bos & Vaugh (2002).
Extensive research has found that each of the components is an important element in teaching children to become proficient readers. A focus on any single element is not sufficient to comprise an effective reading program. All elements need to be taught systematically and explicitly through a balanced approach. Only when all the elements are taught in a balanced approach do students have the opportunity to become proficient readers who can gain knowledge from print.

Holding tight to one methodology not only limits what a teacher can do but limits who can be successful. Believing that one single method can make (or not make) the difference in any given student’s chance of success negates the importance of the teacher. In fact, …the teacher’s skill in assessing students’ abilities, effectively responding to students’ needs and successfully analyzing and monitoring students’ improvement makes the difference. This means, in short, we can’t fix the reading problem by buying a particular program… (Beers, 2003, p. 36)

**Reading Comprehension**

Comprehension strategies are the centrepiece of the literacy curriculum (Pressley, 2000). Reading comprehension refers to the understanding of printed text. Proficient readers engage in an intentional problem-solving process to comprehend. This process has a before, during, and after component. Most readers who are explicitly taught reading comprehension skills and strategies are likely to learn, develop, and use them spontaneously (Collins Block, & Pressley, 2001).

Critical reading comprehension skills and strategies include the ability to:
- summarize;
- predict;
- develop questions;
- clarify;
- relate the content of the text to personal experience and knowledge (activate prior knowledge);
- construct mental representations of the text;
- monitor understanding of the text; and
- determine and connect important ideas to construct meaning (Collins Block, & Pressley, 2001; Moats, 1998).

Teachers need to explicitly describe these comprehension strategies and explain to students when and how they should be used. Teachers also need to model the strategies in action (e.g., by using Think Aloud) and use them with their students. They need to guide practice with a gradual release of responsibility so that students eventually make the...
strategies their own. They also need to show students how the strategies can be applied to comprehend oral, print, and other media text.

Please refer to Appendix A for strategies and resources for assessing and teaching reading comprehension.

**Language Cues and Conventions**

Language is the foundation for reading. Consequently, attention needs to be paid to the elements of the language cueing systems and the critical role they play in reading (see Figure 3.2). The cueing systems are the elements of oral and written language, including:

- sounds;
- the collection of words;
- word order patterns; and
- the larger units and patterns that form text.

These systems communicate and cue intended meaning. The conventions are the expected form or manner that these cues should take, including the:

- spelling of words;
- punctuation of sentences; and
- format of text such as paragraphs.

These essential features are delineated in the following sections.

**Figure 3.2. Language Cueing Systems**

<table>
<thead>
<tr>
<th>Cueing Systems</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pragmatic cueing system</strong></td>
<td>builds on prior knowledge and experiences</td>
</tr>
<tr>
<td></td>
<td>takes into consideration the social and cultural aspects of language (e.g., situation [context], audience, and purpose)</td>
</tr>
<tr>
<td><strong>Textual cueing system</strong></td>
<td>helps us organize ideas in different text structures</td>
</tr>
<tr>
<td><strong>Syntactic cueing system</strong></td>
<td>helps us organize words into meaningful sentence patterns (word order)</td>
</tr>
<tr>
<td><strong>Semantic cueing system</strong></td>
<td>helps us consider word meanings (denotation and connotation) and functions</td>
</tr>
<tr>
<td><strong>Graphophonic cueing system</strong></td>
<td>helps us attend to letter-sound relationships in words (their pronunciation and spelling)</td>
</tr>
</tbody>
</table>

From *English Language Arts: A Curriculum Guide for the Middle Level* (Grades 6-9) draft (pp. 3, 4), by Saskatchewan Learning, 2003b, Regina, SK: Author.
Phonemes are speech sounds. For example the word “though” has 6 letters (graphemes) and 2 sounds (phonemes), /th/ /o/.

Phonological Awareness and the Graphophonic Cueing System

Students develop an awareness of how language works and an understanding that oral language is made up of many parts. Communication is made up of sentences, sentences are made up of words, and words are comprised of syllables and sounds. Typically, emerging readers refine their awareness of the phonological components, and eventually understand how the graphophonic system works.

Initially, children play with words by creating new words and by exploring and creating language patterns. By singing songs, chanting rhymes, playing with words, and listening to adults read word-play books, children develop their phonemic awareness. Typically, there is a natural continuum to this skill development but for children with reading difficulties or disabilities this is not always the case. For some children, teachers have to provide small group instruction that is more explicit, systematic, intensive, and supportive than is usually provided in the classroom.

Beginning readers develop their concept of letters and the alphabet. The recognition and naming of letters is foundational to using the graphophonic cueing system. By noticing letters in environmental print, singing, and recognizing their own name, students begin to explore and understand this relationship. Students who do not develop this understanding will require explicit and direct instruction in phonics (Torgesen, Wagner, Rashotte, Alexander, & Conway, 1997). This begins the understanding of the connection of phonemes to letters.

Please refer to Appendix B for additional information, resources, and guidelines for assessing and teaching phonemic awareness.

Phonics

Phonics instruction is a means to an end; not the end in itself. Phonics is not meant to be the predominant component within a reading program; rather it is one of the essential features. It is critical that students see the relevance of phonics. Phonics instruction should begin with a foundational understanding of phonemic awareness and letters of the alphabet. The instruction should be linked to literature rather than to decontextualized activities with no relevance.

Most students eventually develop sound-letter relationships that help them decode and spell words. Effective phonics instruction focuses
students’ attention on noticing the letter-sound patterns. By embedding phonics instruction in the total language arts program and by using teachable moments, teachers can assist most students to develop an understanding of the graphophonic cueing system.

Please refer to Appendix C for additional information, resources, and recommendations for teaching phonics.

**Vocabulary Development and the Semantic Cueing System**

Beginning readers develop a word awareness. Students need to develop a store of words that they recognize automatically and understand. By repeated reading experiences (e.g., labels, key words, messages, word walls, lists) students develop recognition of most words they see, hear, and write.

If students are to become successful and fluent readers, it is important for them to understand the meaning of ideas and the words that describe those ideas. In combination with their understanding of the graphophonic cueing systems and conventions, children need to understand the semantic cueing system and conventions. During the reading process, students need to understand the words that allow them to comprehend what they are reading and the strategies that they need to figure out the meaning. Vocabulary cannot be left to chance; it has to be developed and extended and taught.

For some of our students, developing and expanding their vocabulary level is a complex process that requires multiple exposure to words and their meanings. They must be taught to use various word-learning strategies as they approach new words in their reading and in their environment. Effective vocabulary instruction occurs when:

- students are provided multiple exposure to words in a variety of contexts;
- words are taught in the context of a selection or unit;
- teachers help students activate prior knowledge when learning new words;
- relationships are drawn between new words and known words and concepts;
- students are taught to use context clues and reference resources such as dictionaries to enhance their word knowledge; and
- students are encouraged to interact with the words so they are able to process them deeply.

From *English Language Arts: A Curriculum Guide for the Elementary Level* (K-5) (pp. 242, 399-424) by Saskatchewan Learning, 2002b, Regina, SK: Author.
Students need to be taught oral and written vocabulary in order to enhance the process of reading (Moats, 1998). If the word is not in one’s oral vocabulary, it will not be understood when it is encountered in print. Oral vocabulary is key to learning when making the transition from oral to written forms. Reading vocabulary is crucial to the comprehension of text.

Please refer to Appendix D for strategies and resources for vocabulary development.

**Sentence Patterns and the Syntactical Cueing System**

In addition to vocabulary, students need to know that words are arranged in a certain order in sentences to give them meaning. As students mature, they understand the range of syntactical patterns and realize that punctuation contributes to meaning. Effective syntactical instruction occurs when:

- students are taught to use punctuation and to recognize its function—how it changes the meaning of sentences;
- students are taught to recognize how the order of words in a sentence determines meaning; and
- students practise using word order and punctuation in their own writing.

**Text Forms, Features, and the Textual Cueing System**

Students also have to recognize that words and sentences form different types of text, which are organized in particular structures or patterns. Typical textual cues and conventions for fiction, for example, include a setting (when and where), characters (who), and a series of events that focus on a problem followed by a solution. In contrast, nonfiction text presents ideas or events that are organized in a variety of ways including cause and effect, comparison and contrast, problem and solution, time order, or descriptive details. For students to be able to follow and understand text, they have to be able to recognize the organizational structures behind the text. Effective textual cueing instruction would focus on:

- introducing students to a variety of fiction and nonfiction texts even at a very early age; and
- discussing settings, characters, and events.

**Author’s Intent and the Pragmatic Cueing System**

Effective readers also learn to notice the intent and the assumptions behind the words. Helping students understand who is communicating what to whom, how and why, allows students to understand text. They begin to read between the lines and to
understand why the author wrote a text. Students who understand the pragmatics can gradually learn to perceive the author’s intent and point of view.

Learning the pragmatic cueing system also allows students to apply their skills to social settings. Their understanding of the various demands in different social settings with different audiences and purposes helps them make choices about how to address the people with whom they are communicating. Although the pragmatic cueing system is the last of the language systems to be learned (Hagemann, 2003), it is very important to reading and to success in life. Students who have a reading disability may not have reached this developmental milestone and thus may not be able to identify the pragmatic cues when communicating with others. This has potential to lead to misunderstandings and to being seen as not having good social skills.

Effective pragmatic instruction focuses on:

- having students understand that the context influences how language is used and that their pragmatic expectations help them know what to expect in the text;
- determining students’ assumptions as they read. What will the student bring to the text? What will the teacher have to provide as background to help the students understand the text?
- helping students read a variety of texts for a variety of purposes;
- helping students understand the context in which the story was written and how the language of the story was affected by the situation;
- reading dialogues in dialect to students;
- using Wilkinson’s Framework (Wilkinson, Stratta, & Dudley, 1974). In this text, who communicates what to whom, how and why, and on what occasion?
- opportunities for students to shift their language to meet the demands of different texts;
- an opportunity for students to practise one-way communication, two-way communication, and group discussions; and
- teaching students to recognize formal and informal communication situations.

These students spend so much time getting through the text that making an inference as they read is the last thing that happens, if it happens at all. (Beers, 2003, p. 169)
**Reading Fluency**

Reading fluency refers to the ability to quickly and accurately read text with appropriate expression. Fluent readers do not have to sound out or decode each word.

Automaticity allows readers to focus on comprehension. Increasing automaticity in word recognition is extremely important in the process of developing reading proficiency. Fluent readers have good vocabulary and good word identification skills; they make connections between the text and their prior knowledge.

Many educators believe that if they encourage students to read more, they will increase their fluency and achieve improved reading skills; however, there is not adequate evidence to support this belief. Accuracy is acquired word by word but it does not automatically mean fluency especially for a student with a reading disability.

Fluency can be targeted through:

- repeated readings;
- shared readings;
- echo readings;
- guided readings;
- self-identifying reading errors; and
- visualization.

Fluency can be taught through oral reading, and opportunities for feedback as the child reads (Shaywitz, 2003). Shaywitz does caution that the feedback must be constructive and oral reading must be a positive experience.

Please refer to Appendix D for strategies and resources for vocabulary development.

We have learned that for 90 to 95 percent of poor readers, prevention and early intervention provided by well-trained teachers can increase reading skills to average reading levels (Tankersley, 2003). These intervention programs must combine instruction in:

- reading comprehension strategies;
- the language cueing systems including phonemic awareness, phonics, syntax, text, and pragmatics; and
- fluency development.
However, there is also evidence to suggest that if we delay intervention until nine years of age, approximately 75 percent of the children continue to have difficulties learning to read throughout high school (Tankersley, 1998).

Successful intervention requires that teachers understand the reading processes and instruction, think diagnostically, and use this information on an ongoing basis to inform instruction. Struggling readers need multi-level, flexible, small-group instruction balanced with whole-class instruction in which the teacher models and explicitly teaches reading strategies. One-size instruction does not fit all children.

Saskatchewan English language arts curricula and *Early Literacy: A Resource for Teachers* (Saskatchewan Learning, 2000) provide assessment tools and instructional guidelines, strategies, and activities for all areas of literacy development. This includes listening, speaking, reading, writing, viewing, and representing. Supplementary information on assessment, instructional strategies, and activities are included in Appendices A–G.
4

WRITTEN EXPRESSION INSTRUCTION

4.1 Spelling
4.2 Handwriting
4.3 Composing Skills
4. WRITTEN EXPRESSION INSTRUCTION

Writing is the most complex form of language development. It requires generating thoughts and ideas, and converting them into written words that can be formulated into coherent sentences that include proper mechanics (spelling, punctuation, and capitalization). The sentences must be interrelated and connected in order to convey meaning.

Students who have reading disabilities have great difficulties with the writing process. For most of these students, their writing difficulties are due to problems with lower level transcription skills (e.g., spelling, handwriting) rather than higher level composing skills (e.g., generation of ideas, editing, revising, organization) (Berninger, Abbott, Whitaker, Sylvester, & Nolen, 1995). When students with reading disabilities have difficulties with the higher level skills, it is usually because the lower level transcription skills are not automatized. Also, students who struggle with transcription skills are devoting much time and energy to this lower level skill, using up their attentional resources that could be directed at the more complex tasks of composing and revising (McCutcheon, 1988). The following section will briefly describe the nature of spelling, handwriting, and composing difficulties experienced by students with reading disabilities and describe areas on which to focus instruction.

4.1 Spelling

As children learn to read, they are learning to spell at the same time. When children have difficulty learning to decode (read) they also have difficulty learning to encode (spell). Moats (1998) reported that spelling is the most difficult literacy skill to develop in children with a reading disability.

According to Lennox and Siegel (1998), phonological and orthographic skills interact in a reciprocal manner through the development of learning how to spell. That is, children rely on both the sound system (phonology) of a language as well as spelling patterns (orthography) to spell words. The sound-to-letter (phoneme-to-grapheme) correspondence rules are an effective and powerful means to spelling “regular” words (Leong, 1998). For “irregular” words (e.g., tongue, ocean, yacht), knowledge of spelling patterns and specific word memory are important. Explicit training in phonological skills and spelling pattern structures needs to be carried out (Leong, 1998).
It is important to teach children how to spell. According to Kosnik and Duplak (1997), spelling must be interconnected with all aspects of language learning and have a distinct place in the language arts program. A strong background in phonemic awareness (the ability to focus on and manipulate sounds in spoken words) and phonics skills (the ability to make relationships between the letters of written language and the sounds of spoken language) is definitely necessary to assist students in spelling. The phonics skills students use to decode words will also help them to encode or spell words.

In fact, research has shown that spelling instruction can be used to teach or enhance beginning reading (Ehri & Wilce, 1987) because spelling provides students with a concrete example of how letters can represent the phonemes in words. The production of correct sound-letter correspondences in spelling engages phonemic processing at the highest level. Through writing, students learn to see the patterns in phonemic content rather than as arbitrary sequences of letters. Practice in using the alphabetic strategy to spell by writing helps students transfer this strategy to reading (Treiman, 1998). Due to the close relationship between reading and spelling, effective spelling instruction integrates key skills across both reading and writing so that the development of these skills occurs in a reciprocal and facilitative manner (Ehri, 2000).

**Spelling Instruction**

The primary goal of spelling instruction should be to instill the logic and organization of the spelling system (Moats, 1998) and to help students become proficient and fluent in spelling words (Graham, Harris, MacArthur, & Schwartz, 1998). Ultimately the aim of spelling instruction should be to assist students to become competent, independent spellers (Kosnik & Duplak, 1997) thereby freeing up attentional resources for higher level written expression skills (e.g., composing, ideas generation, and organization).

The spelling characteristics of older students who are poor spellers tend to be similar to those of younger non-learning disabled students (Scott, 2000). Table 4.1 provides an overview of the developmental stages in spelling along with suggestions for planning interventions at each stage. Table 4.2 provides a developmental inventory to assist in analyzing the student’s spelling.

Treiman (1997) reported that what distinguishes spellers with reading disabilities is that they continue to have difficulties with some very specific phonemic processing skills. For example, they have persistent difficulties spelling words that contain liquids (e.g., /l/ and /r/) and nasals (e.g., /m/, /n/), particularly following vowels.
and in any non-initial position (e.g., WROK/work, KID/kind, SEFE/self). The assistance of a speech-language pathologist would be invaluable in helping to analyze the nature of spelling difficulties of the older student with a reading disability and to plan programs accordingly.

When planning instructional interventions for the poor speller, it is important to remember that students with poor spelling skills require more time and more intensive amounts of study to learn spellings (Scott, 2000). It will be important then, to either reduce the number of words to be learned per day or week compared to good spellers, or present daily subsets of a smaller number of words (Fulk & Stormont-Spurgin, 1995; Graham & Voth, 1990).

Students who are poor spellers also need to be afforded many opportunities to practise writing words. According to Moats (1995), children with reading disabilities need as many as 40 opportunities to write a word correctly before they remember it. Moats further recommends that a given lesson should include 80 percent old information and 20 percent new information so that words or spelling patterns are revisited and restudied and a criterion of mastery is met over a period of time. This distributed practice in spelling is important given the commonly observed tendency of poor spellers to forget a word that they previously spelled correctly, particularly if they are using this word in text-level writing.

Ultimately, students who are poor spellers, even older students, need basic practice and intervention in phonological awareness and the alphabetic principle as well as with morphology and meaning. Spelling instruction typically consists of memorizing words, word analysis, and sorting activities within the context of balanced, authentic reading and writing activities (Scott, 2000).
Table 4.1. Using Student’s Writing to Plan Spelling Instruction

<table>
<thead>
<tr>
<th>Stage (Gentry, 1987)</th>
<th>What Student Knows</th>
<th>What Student is Ready to Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-conventional/Pre-phonetic - pre-school, ages 2-5 years (e.g., bst).</td>
<td>• knows about stories and what writing is but lacks concepts of words or relationships between sounds and letters; • makes letter-like shapes or actual letters and numbers; • combines drawing with writing; and • may write name.</td>
<td>Play “writing”, scribbling, painting, drawing, colouring, cutting, constructing; dictating stories about their pictures; practising writing their names; extensive exposure to print.</td>
</tr>
<tr>
<td>Emergent - kindergarten to beginning of first grade, ages 5-6 years (e.g., mi = my or m = my).</td>
<td>• knows letter names and uses some sound-symbol correlations; • knows words are made of letters, but letter-to-sound consonant correspondences are lacking or incomplete; • uses words of one to three letters; • uses initial consonants in some words; • may omit vowels or very few vowels are used; • shows some sense of left to right; and • uses letter names as sound cues.</td>
<td>Studying alphabet if needed and beginning consonant sounds; making class chart stories; discussing key vocabulary; playing with language rhymes; working with word walls and learning simple sight vocabulary; reading environmental labels and pictures; creating big books and picture dictionaries; dictating stories and experience charts.</td>
</tr>
<tr>
<td>Early - grades 1-2 (e.g., “Mi cat caem hom today.”)</td>
<td>• uses vowels in each syllable; • uses sight vocabulary; • short vowels are used but are generally inaccurate; • some blends and digraphs are in place; • knows correct spelling of many high frequency words and uses familiar spelling patterns; • intersperses conventional spelling with temporary spelling; and • uses conventional spacing between words.</td>
<td>Categorizing words by common patterns; developing word banks and beginning a personal dictionary. Studying one word family at a time and then comparing word families with the same vowel; discussing spelling patterns and sounds heard in words; using word banks. Writing regularly; comparing word families with mixed vowels including words with blends and digraphs.</td>
</tr>
<tr>
<td>Conventional/Fluent - grades 2-4, ages 7-9 years (e.g., “My cat came home today.”)</td>
<td>• spells most words needed correctly; • has mastered root words, past tense, and short vowels; • still struggles with consonant doubling, letter position (e.g., silent e, controlled vowels, and word affixes); and • has growing knowledge of word meanings and complicated vowel patterns.</td>
<td>Explicit instruction in classifying visual patterns; using word meanings and derivations (e.g., nature, natural, naturalist); using memory strategies for difficult words and developing strategies for learning new words; developing personal word lists; proofreading own writing. Writing and reading a variety of texts; doing word study (foreign prefixes, roots, suffixes); using syllabication; extending proofreading strategies; developing memory strategies for difficult words (e.g., look, cover, write, and check); playing word games (e.g., crosswords, word searches, and riddles).</td>
</tr>
<tr>
<td>Morphemic and Syntactic - grades 5-8, ages 10-13 years.</td>
<td>• spells multisyllabic words and uses morphological and syntactical knowledge; • recognizes derivational relationships; and • is better at doubling consonants, spelling alternative forms of words, and word endings.</td>
<td>Building a personal spelling vocabulary; revising their writing; building a repertoire of spelling strategies. Writing, reading, word study, word games; using content-area words; identifying own problem words; proofreading own and other’s writing; using a variety of resources to assist in spelling; studying unusual spellings.</td>
</tr>
</tbody>
</table>
### Table 4.2. Spelling Inventory

#### Developmental Spelling Inventory

**Directions:** Read the following 10 words. Use each in a sentence. Ask the student to write down each word.

1. monster 6. human
2. united 7. eagle
3. dress 8. closed
4. bottom 9. bumped
5. hiked 10. typed

**Key:** Analyze the child’s spelling.

1. Find the error type in the scoring chart below that best matches the student’s spelling. This does not have to be exact.
2. Write an abbreviation of the developmental level beside each word.
3. Look for the abbreviation that occurs most frequently to determine the child’s developmental level.

#### Scoring Chart

<table>
<thead>
<tr>
<th>Pre-communicative</th>
<th>Emergent/Semi-phonetic</th>
<th>Early Phonetic</th>
<th>Early Transitional</th>
<th>Conventional</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. random</td>
<td>Mtr</td>
<td>monstr</td>
<td>monstur</td>
<td>monster</td>
</tr>
<tr>
<td>2. random</td>
<td>U</td>
<td>untid</td>
<td>younighted</td>
<td>united</td>
</tr>
<tr>
<td>3. random</td>
<td>Jrst</td>
<td>jras</td>
<td>dres</td>
<td>dress</td>
</tr>
<tr>
<td>4. random</td>
<td>Bt</td>
<td>bodm</td>
<td>bottum</td>
<td>bottom</td>
</tr>
<tr>
<td>5. random</td>
<td>H</td>
<td>hikt</td>
<td>hicked</td>
<td>hiked</td>
</tr>
<tr>
<td>6. random</td>
<td>Um</td>
<td>humm</td>
<td>humun</td>
<td>human</td>
</tr>
<tr>
<td>7. random</td>
<td>El</td>
<td>egl</td>
<td>egul</td>
<td>eagle</td>
</tr>
<tr>
<td>8. random</td>
<td>Kd</td>
<td>klosd</td>
<td>closed</td>
<td>closed</td>
</tr>
<tr>
<td>9. random</td>
<td>B</td>
<td>bopt</td>
<td>bumped</td>
<td>bumped</td>
</tr>
<tr>
<td>10. random</td>
<td>Tp</td>
<td>tip</td>
<td>tipe</td>
<td>typed</td>
</tr>
</tbody>
</table>

(Gentry, 1985, p.50)

From *English Language Arts: A Curriculum Guide for the Elementary Level (K-5)* (p.273) by Saskatchewan Learning, 2002, Regina, SK: Author

Please refer to Appendix F for recommendations and activities for teaching spelling.
Word Analysis and Word Sorting with Poor Spellers

As well as learning and memorizing spelling lists, it is important for students to be involved in word analysis activities. Usually, these activities focus on sorting words according to various grapheme-phoneme (letter-sound) patterns (e.g., “-ack”, “-est” endings). By learning various word patterns, it is anticipated that students will generalize their knowledge of these patterns in learning new words.

There are numerous ways to teach these skills in motivating ways to students (e.g., word hunts, word sorts). It is also helpful to take words from the student’s personal word bank (words the student can already spell). By focusing on words that the student already knows, it is easier to draw attention to patterns and similarities with words yet to be learned. The following considerations are helpful in choosing words for a spelling list:

- Use known and unknown word patterns.
- Use words that feature internal portions of words. Make these explicit by colour-coding them (e.g., in, form, inform, formation, information).
- Use words that contain liquids, nasals, and consonant clusters in non-initial positions (e.g., past, mind, bold, mindful) to teach specific phonemic skills with which poor spellers have persistent difficulty.
- Use words that have or do not have a target spelling pattern to draw the students’ attention to shared patterns as well as to highlight unique patterns.

Adapted from Scott (2000).

The following strategies encourage strategic spelling behaviour in poor spellers:

- finding the specific letter or portion of the word where the error occurs (can use a highlighting pen to highlight possible errors);
- generating alternative spellings;
- using common word analogies to create alternative spellings;
- using self-questioning and self-monitoring strategies;
- using peer editors; and
- using more than one error detection strategy (e.g., reading aloud paired with spell checkers).

Adapted from Scott (2000).
4.2 Handwriting

Given the importance of lower level transcription skills to the writing process, learning to write letters efficiently is not a trivial task for young children (Edwards, 2003). Similar to spelling, students with reading disabilities who may have difficulty with the visual-motor aspects of forming letters during text production have little cognitive resources left to devote to the higher level compositional aspects of written expression (Graham, Harris, & Fink, 2000). For these students, the actual forming of letters in connected text is a time-consuming and laborious process. The assistance of an occupational therapist can be valuable in helping to develop instructional interventions and adaptations for these students.

Research has indicated that the difficulties of many students with handwriting problems stem not necessarily from the motor skills required to produce letters, but from students’ difficulties retrieving the correct shapes of letters in memory (Berninger & Graham, 1998). Students with handwriting difficulties may also benefit from the following additional strategies:

- The names of letters may help serve as cues for retrieving the letter during the motor process of writing. For example, the student says the name of the letter (e.g., “The name of the letter is ‘a’”), matches the letter name to its appropriate letter form (e.g., “The letter looks like…”), and then writes the letter “a”.
- Have students write the letter that comes after a set of five designated letters by playing an alphabet retrieval game.
- Combine instruction on lower level skills such as handwriting and spelling with work on higher level composing skills in a single instructional session.
- Provide students with opportunities to write letters from memory.
- Provide students with opportunities to copy modelled lowercase letters that are marked with arrow cues that signify correct direction for their production.

4.3 Composing Skills

The ultimate goal of writing is for students to express their thoughts and ideas in a coherent, meaningful, and comprehensible way. For students with reading disabilities, this goal may present a significant challenge due to problems with lower level handwriting and spelling skills. While it is important to develop these lower level transcription skills, instruction and intervention that integrates both transcription and composition skills is important for the development of written expression skills (Berninger, 1999). Students who have a reading disability often have great difficulty with the compositional aspects of writing because lower level transcription skills are not automatized and thus little cognitive energy is left to devote to higher level text generation activities. Students may struggle from the very beginning stage of thinking about a topic to editing the final draft. The difficulties associated with the compositional or higher level aspects of written expression are examined in detail in Table 4.3.

The English language arts curriculum guides provide details of the writing process along with specific objectives, assessment tools, and teaching activities. It is important that teachers familiarize themselves with the writing strand for the particular grades they teach.

Please refer to Appendix G for strategies and resources for assessing and teaching written expression.
Table 4.3. Written Expression and Associated Difficulties

<table>
<thead>
<tr>
<th>Written Expression</th>
<th>Associated Areas of Difficulty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Handwriting</strong></td>
<td>• forming letters;</td>
</tr>
<tr>
<td></td>
<td>• writing legibly;</td>
</tr>
<tr>
<td></td>
<td>• interspersing upper and lower</td>
</tr>
<tr>
<td></td>
<td>case letters throughout</td>
</tr>
<tr>
<td></td>
<td>writing;</td>
</tr>
<tr>
<td></td>
<td>• gripping a pencil or pen</td>
</tr>
<tr>
<td></td>
<td>and applying correct</td>
</tr>
<tr>
<td></td>
<td>pressure; and</td>
</tr>
<tr>
<td></td>
<td>• spacing letters and</td>
</tr>
<tr>
<td></td>
<td>sentences.</td>
</tr>
<tr>
<td><strong>Pre-Writing Stage</strong></td>
<td>• discussing topics;</td>
</tr>
<tr>
<td></td>
<td>• thinking of ideas to write</td>
</tr>
<tr>
<td></td>
<td>about;</td>
</tr>
<tr>
<td></td>
<td>• planning and organizing</td>
</tr>
<tr>
<td></td>
<td>ideas;</td>
</tr>
<tr>
<td></td>
<td>• brainstorming;</td>
</tr>
<tr>
<td></td>
<td>• considering the audience or</td>
</tr>
<tr>
<td></td>
<td>purpose;</td>
</tr>
<tr>
<td></td>
<td>• researching information;</td>
</tr>
<tr>
<td></td>
<td>• completing written</td>
</tr>
<tr>
<td></td>
<td>assignments on time.</td>
</tr>
<tr>
<td><strong>Drafting Stage</strong></td>
<td>• getting thoughts down on</td>
</tr>
<tr>
<td></td>
<td>paper;</td>
</tr>
<tr>
<td></td>
<td>• developing sentences;</td>
</tr>
<tr>
<td></td>
<td>• writing compound/complex</td>
</tr>
<tr>
<td></td>
<td>sentences;</td>
</tr>
<tr>
<td></td>
<td>• organizing their writing;</td>
</tr>
<tr>
<td></td>
<td>• writing coherently.</td>
</tr>
<tr>
<td><strong>Revising Stage</strong></td>
<td>• proofing their product;</td>
</tr>
<tr>
<td></td>
<td>• editing for content;</td>
</tr>
<tr>
<td></td>
<td>• rearranging information;</td>
</tr>
<tr>
<td></td>
<td>• spelling, punctuation, and</td>
</tr>
<tr>
<td></td>
<td>capitalization.</td>
</tr>
<tr>
<td><strong>Sharing Stage</strong></td>
<td>• sharing or publishing final</td>
</tr>
<tr>
<td></td>
<td>written product.</td>
</tr>
</tbody>
</table>
5.1 Assessment and Program Planning
Early warning signs of a reading disability may include difficulty with:
- language skills;
- remembering the alphabet and numbers;
- remembering the days of the week;
- understanding and remembering letter/sound connections; and
- coordination.

5. ASSESSMENT AND INTERVENTION

It is important to have plans in place throughout the school years to ensure that students with learning disabilities are provided with assessment, diagnosis, and appropriate educational supports as needed. This chapter outlines an assessment and program planning process that begins when the classroom teacher identifies concerns regarding the reading progress of a student. It includes possible interventions for the classroom teacher as well as suggestions for further assessment and collaborative planning.

There are several early warning signs a teacher may notice with students who may be at risk for reading failure. These are:
- delayed receptive and expressive language skills;
- poor phonological skills;
- difficulty learning phonics; and
- not remembering basic rote information.

It is important to keep in mind that early warning signs do not necessarily mean that the student has a learning disability. They are characteristics that suggest further investigation and the need for early intervention.

Although early identification and intervention for young children with a reading disability leads to better school adjustment and performance, recognizing reading difficulties throughout a child’s school years is important. In the early elementary years warning signs may include difficulty with:
- recognizing and naming letters;
- developing a store of sight words;
- demonstrating an understanding of sound-letter relationships; and
- coordination.

From Kindergarten to Grade Three children spend much of their time learning to read accurately and smoothly. If they have not acquired adequate reading skills by the time they are in Grade Four, they may have a difficult time with the regular curriculum without adaptations. Seventy-five percent of children with reading disabilities in Grade Three may continue to have difficulties learning to read throughout high school and their adult life (Lyon, 1997).
In the **middle and secondary years**, some warning signs of a reading disability may include difficulty with:

- vocabulary development;
- word order, sentence patterns, and punctuation;
- idea order and text patterns; and/or
- fluency in reading.

Thus, it is important to provide direct, intense, and explicit instruction as early as possible and throughout the school years for students who are having difficulty learning to read. It is also important to have an assessment framework in place for the classroom teacher to refer to when there is a concern about a student’s reading progress.

### 5.1 Assessment and Program Planning

The Framework for Assessment and Program Planning (see Figure 5.1) describes a process for intervening with students who are having significant difficulties learning to read. Additional information is provided in Tables 5.1, 5.2, and 5.3. It is critical that students with reading difficulties and disabilities are identified early so that the appropriate intervention strategies may be implemented. Students who have a reading disability require explicit and intensive instruction that is ongoing.

Classroom teachers continually assess students’ learning in order to inform instruction. The English language arts curricula and *Early Literacy* documents developed by Saskatchewan Learning provide in-depth goals and procedures for instruction and evaluation. Teachers are encouraged to refer to these documents for guidance.

Appendices A–G provide additional tools to support the assessment process.

When teachers have initial concerns about a student’s lack of progress, there are many things they can do to support the student. It is important to intervene as soon as the teacher recognizes that a student is falling behind. Table 5.1 outlines suggested guidelines for working together with parents to identify concerns and to develop a classroom intervention plan. In many situations, these interventions may be effective and no further input may be required.

When a reading disability is suspected, writing difficulties are often observed as well. Tables 5.4 and 5.5 provide suggestions to assist teachers in identifying the source of reading and writing difficulties as well as interventions and supports. Teachers are encouraged to refer to the English language arts curricula as well as to Table 5.4 and 5.5 when they first identify a reading and/or writing concern.
Figure 5.1. Framework for Assessment and Program Planning

**Framework for Assessment and Program Planning**

**Step 1. Classroom Assessment and Intervention**

*Classroom Teacher*

- in collaboration with parents/caregivers, LAT/EST/RT*, administrator
- collect/review information
- if insufficient information move to Step 2
- develop *Classroom Intervention Plan* (see Table 5.1)

Student experiences success with *Classroom Intervention Plan*
- continue with interventions
- monitor, evaluate

Student continues to experience difficulty

**Step 2. Referral Process**

- Establish a team (see Table 5.2)
- review information
- if sufficient information develop *Expanded Classroom Intervention Plan*
- if insufficient information arrange for formal assessment

Student experiences success with *Expanded Intervention Plan*
- continue with interventions
- monitor, evaluate

Student continues to experience difficulty

**Step 3. Formal Assessment/Program Planning**

- The team
- reviews assessment results and develops PPP (see Table 5.3)
- implements, evaluates, and monitors

Student experiences success with *PPP*
- continue with interventions (PPP)
- monitor, evaluate

Student continues to experience difficulty
- team reviews and adjusts program

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* • EST = Educational Support Teacher
  • LAT = Learning Assistance Teacher
  • RT = Resource Teacher
Table 5.1. Step One: Classroom Assessment and Intervention

<table>
<thead>
<tr>
<th>Teacher has a concern about a student’s academic progress.</th>
<th>Classroom teacher with possible support of special educator and/or administrator:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Discusses concerns with parents/guardians;</td>
</tr>
<tr>
<td></td>
<td>Ensures vision, hearing, and medical assessments are up to date;</td>
</tr>
<tr>
<td></td>
<td>Reviews cumulative record;</td>
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<tr>
<td></td>
<td>Collects data through informal assessments;</td>
</tr>
<tr>
<td></td>
<td>Documents observations;</td>
</tr>
<tr>
<td></td>
<td>Identifies areas of strengths and difficulties;</td>
</tr>
<tr>
<td></td>
<td>If there is sufficient information, develops Classroom Intervention Plan;</td>
</tr>
<tr>
<td></td>
<td>Implements intervention strategies;</td>
</tr>
<tr>
<td></td>
<td>Documents interventions; and</td>
</tr>
<tr>
<td></td>
<td>Monitors progress.</td>
</tr>
<tr>
<td></td>
<td>If further information is needed moves to Step 2</td>
</tr>
<tr>
<td></td>
<td>Evaluates if Classroom Intervention Plan is working:</td>
</tr>
<tr>
<td></td>
<td>If yes – continues to monitor progress; or</td>
</tr>
<tr>
<td></td>
<td>No – moves to step 2.</td>
</tr>
</tbody>
</table>

Table 5.2. Step Two: Expanded Intervention Plan or Referral Process

<table>
<thead>
<tr>
<th>Team members include those who are directly involved with the student or who may be able to contribute to the intervention plan. Core team members include: parents/guardians, classroom teacher, student (if appropriate), learning assistance teacher, educational assistant. Extended team members may include: previous teacher(s), administrator, speech-language pathologist, psychologist, and occupational therapist.</th>
<th>Team meeting is held to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Discuss strengths, issues, and concerns;</td>
</tr>
<tr>
<td></td>
<td>Review student’s history;</td>
</tr>
<tr>
<td></td>
<td>Review classroom-based assessment;</td>
</tr>
<tr>
<td></td>
<td>Review interventions to date; and</td>
</tr>
<tr>
<td></td>
<td>Define learning difficulties.</td>
</tr>
<tr>
<td></td>
<td>If there is sufficient information develop Expanded Intervention plan:</td>
</tr>
<tr>
<td></td>
<td>Brainstorm interventions;</td>
</tr>
<tr>
<td></td>
<td>Select interventions;</td>
</tr>
<tr>
<td></td>
<td>Plan implementation;</td>
</tr>
<tr>
<td></td>
<td>Plan monitoring and follow-up; and</td>
</tr>
<tr>
<td></td>
<td>If the student is working on learning objectives that differ from the regular curriculum and/or will receive additional supports, develop Personal Program Plan (PPP).</td>
</tr>
<tr>
<td></td>
<td>If further information is needed move to Step 3.</td>
</tr>
<tr>
<td></td>
<td>Evaluate if Expanded Intervention Plan is working:</td>
</tr>
<tr>
<td></td>
<td>If yes – continue with plan and monitor; or</td>
</tr>
<tr>
<td></td>
<td>No – refer student for formal assessment, move to Step 3.</td>
</tr>
</tbody>
</table>
## Table 5.3. Step Three: Formal Assessment and Program Planning

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify what information is needed</td>
<td>Identify personnel (who will conduct the formal assessments); obtain parental permission for formal assessment; discuss results and recommendations based on formal assessment;</td>
</tr>
<tr>
<td>Develop PPP</td>
<td>Plan implementation of recommendations; implement PPP; monitor progress; evaluate at regular intervals; adjust as appropriate; conduct annual review; and provide recommendations for following year.</td>
</tr>
<tr>
<td>Team reviews and adjusts PPP.</td>
<td>Team members meet to identify personnel who will assess/review assessment data when completed and to plan interventions (PPP). This may involve more than one meeting. Team members include: parents/guardians, classroom teacher, student (if appropriate), and learning assistance teacher. It may also include: educational assistant, administrator, speech-language pathologist, psychologist, and occupational therapist.</td>
</tr>
</tbody>
</table>
### Table 5.4. Developing the Classroom Reading Intervention Plan

<table>
<thead>
<tr>
<th>Reading Skills</th>
<th>Areas of Concern</th>
<th>Skills Required</th>
<th>Assessment for Instruction</th>
<th>Instructional Strategies (Choose the appropriate strategies for your student)</th>
</tr>
</thead>
</table>
| **Language:** Communication and Information Processing. | **Student has difficulty:** expressing him/herself orally and/or demonstrating understanding of spoken language and/or written text. | **Student is able to:**  
- name things in the environment;  
- use oral language to bring meaning to what he/she sees, hears, observes, or reads;  
- approximate adult language usage;  
- use simple phrases to make requests and to inform;  
- sustain social verbal interactions;  
- give simple descriptions;  
- confidently share experiences and feelings using oral language;  
- participate in language games;  
- repeat short sentences accurately;  
- stay on topic when speaking;  
- use language to convey meaning;  
- answer questions in complete sentences;  
- retell stories and recite rhymes, sing songs;  
- use vocabulary appropriate for his/her age;  
- use correct pronunciation (for his/her age);  
- participate in group discussions;  
- engage in extended conversations;  
- grasp explanations;  
- comprehend word problems;  
- demonstrate good reading comprehension;  
- give multi-step directions and instructions in correct sequence;  
- participate effectively in group discussions;  
- understand how language varies according to audience, purpose, and situation; and  
- practise “Before”, “During”, and “After” speaking strategies: See ELA 10/20/30 (p. 62). | **Create a student language profile**  
**Listen to your students talk and keep anecdotal records of how the student processes information when engaged in communication.**  

**Early Literacy: A Resource for Teachers**  
Sample Checklist for Observing Children’s Social Communication (p.25).  
Sample Form for Recording Children’s Language Use and Communication Behaviours (p.27).  
Repeat my Sentence (p.28).  

**English Language Arts: K-5**  
Developing Phase  
Speaking Checklist (p.124-125).  
Sample Repeat my Sentence (p.127).  
Sample Oral Language Assessment (p.128).  
Sample Story Telling Checklist (p.134).  
Sample Role Playing Checklist (p.135).  

**English Language Arts: 6-9:**  
Sample Vocabulary Log (p.168).  
Sample Conversation Checklist (p.70).  

**English Language Arts: 10, 20, 30:**  
Sample Conversation Checklist (p.70).  
Contrasting Effective and Ineffective Listening Habits (p.105).  
Sample Self-assessment for Listening: Form One (p.112).  
Sample Listening Behaviour Checklist (p.114).  
Sample Listening Rubic for Small Group Discussion (p.115).  

- **Engage children in imaginative play using language.**  
- **Teach songs, chants, rhymes, and poems.**  
- **Engage students in language experience stories.**  
- **Sharing time and daily news.**  
- **Felt board stories.**  
- **Puppets and dramatization of well known stories.**  
- **Engage children in conversations about topics of interest to them.**  
- **Read aloud to the students and have them make predictions, describe characters, sequence events, and talk about feelings.**  
- **Have students retell stories.**  
- **Have students give and restate directions.**  
- **Role play for social problem solving.**  
- **Explicitly teach vocabulary (this includes math) and concepts in context and attach them to prior learning.**  
- **Emphasize relevant features when teaching new concepts.**  
- **Present visual organizers when presenting new concepts (especially abstract, difficult concepts).**  
- **Provide organizers that provide a visual display of relationships among concepts.**  
- **Request students to paraphrase to check for understanding.**  
- **Write key words on the board or word wall.**  
- **Provide opportunities for students to actively think about new information.**  
- **Present new information in a user friendly way for students who have difficulty understanding and processing spoken language–pair auditory with visual.**  
- **Demonstrate how to take notes (what are the key points) when introducing new vocabulary concepts.**  
- **Demonstrate strategies for memory when introducing new words.**  
- **Teach students strategies to solve word problems.**  
- **Teach category terms.**  
- **Slow down the classroom pace and give students plenty of time to respond.**  
- **Use talking circles, guided discussions, and group talk to engage students.**
### Table 5.4. Developing the Classroom Reading Intervention Plan – Continued

<table>
<thead>
<tr>
<th>Reading Skills</th>
<th>Areas of Concern</th>
<th>Skills Required</th>
<th>Assessment for Instruction</th>
<th>Instructional Strategies</th>
</tr>
</thead>
</table>
| **Phonological Awareness** | Student is unaware of the sound structure of words. Student is not able to rhyme words, blend sounds, and segment words into sounds. | Student is able to:  
  - identify if two words rhyme;  
  - generate a rhyme for a simple word;  
  - easily be taught how to rhyme;  
  - isolate and pronounce the beginning sound in a word;  
  - blend the sounds in two phoneme words (e.g., boy (/b/-oi/);  
  - isolate and pronounce all the sounds in two and three phoneme words;  
  - blend the sounds in four phoneme words containing initial blends; and  
  - blend the sounds in four and five phoneme words containing initial and final blends. | Create a student profile for Phonological Awareness that includes:  
  - sound comparison–identifying words that begin or end with the same sounds or generating words that begin or end with the same sounds.  
  - phoneme segmentation–counting, pronouncing, deleting, adding, or reversing individual phonemes in words;  
  - phoneme blending–blending a series of phonemes in isolation to form a word. |  
  - Read "big" books with identifiable spaces between words.  
  - Identify environmental sounds–sound walk.  
  - Identify the sounds in their names.  
  - Identify individual sounds within words.  
  - Rhyming activities.  
  - Beginning and ending sound analysis.  
  - Concrete activities to segment words into sounds–use coloured blocks, tiles, bits of coloured felt.  
  - Colour code parts of words to show common phonetic patterns.  
  - Change words by changing initial or final sounds.  
  - Blend individual sounds into words–what word do these sounds make?  
  - Present word families in which the vowels represent the same sound.  
  - Provide enough repetition to ensure concepts are being stored in long-term memory.  
  - Embed phonemic awareness activities into spelling and writing lessons.  
  - Teach students to think about the decoding process when reading to expand their knowledge of phonemes.  
  - Refer to: Early Literacy: A Resource for Teachers.  
  - Refer to Appendix B.  |
| **Graphophonic Awareness** | Student has difficulty naming letters and attaching the appropriate sounds to letters. | Student is able to:  
  - recognize words are made up of letters;  
  - recognize writing is talk written down;  
  - begin to recognize print in the environment (e.g., "Stop" sign);  
  - name the letters of the alphabet accurately;  
  - attach the appropriate sound to a letter;  
  - write own names correctly;  
  - write high frequency words correctly;  
  - demonstrate awareness and use of punctuation; | Early Literacy: A Resource for Teachers: Sample Checklist/Form: Phonemic Awareness (p.77)  
Rosner Test of Auditory Analysis.  
Yopp-Singer Test of Phoneme Segmentation.  
English Language Arts 10/20/30: Word and Phrase Awareness and Sound Awareness (p.39, 40, 41). |  
  - Consistently use terms "letter", "word", and "sentence".  
  - Model writing of letters.  
  - Direct, explicit instruction of letter–sound correspondence.  
  - Model writing notes and stories about shared experiences.  
  - Build writings on student interest.  
  - Refer to Chapter 4 – Written Expression Instruction.  
  - Refer to Appendix B.  
  - Refer to Chapter 4 – Written Expression Instruction. |
### Table 5.4. Developing the Classroom Reading Intervention Plan – Continued

<table>
<thead>
<tr>
<th>Reading Skills</th>
<th>Areas of Concern</th>
<th>Skills Required</th>
<th>Assessment for Instruction</th>
<th>Instructional Strategies (Choose the appropriate strategies for your student)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phonics</strong></td>
<td></td>
<td>Student is able to:</td>
<td>Create a student profile that includes:</td>
<td>• Embed phonics instruction into the total program.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• understand sound-letter relationships to decode words;</td>
<td>– oral language</td>
<td>• Teach students the common sounds for vowel patterns.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• use visual memory for high frequency words;</td>
<td>– phonological awareness</td>
<td>• Use decodable text that allows students to practise their decoding skills.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• demonstrate phonological awareness;</td>
<td>– graphophonetic awareness</td>
<td>• Provide instruction of and practice with high frequency words.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• demonstrate graphophonetic awareness.</td>
<td>– sound-letter knowledge</td>
<td>• Provide text that requires decoding and identification of high frequency words.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>– high frequency word recognition</td>
<td>• Play “word detective” games.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>– decoding skills</td>
<td>• Teach students self-talk strategies when encountering new words. Do I know any other words that sound like this? Do I know any other words that sound like this?</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>– prefix and suffix recognition</td>
<td>• Provide direct instruction of suffixes prefixes and root words.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Early Literacy: A Resource for Teachers</td>
<td>• Word wall.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Assessment of Bank of Sight Words and Spelling Patterns (p.114).</td>
<td>Refer to Early Literacy: A Resource for Teachers.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>English Language Arts K-5</strong></td>
<td>Refer to ELA K-5.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sample Miscue Summary/Analysis (p. 150).</td>
<td>Refer to ELA 6-9.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sample Sight Word Assessment (p.158).</td>
<td><strong>English Language Arts: 6-9</strong></td>
</tr>
<tr>
<td><strong>Vocabulary</strong></td>
<td></td>
<td>Student is able to:</td>
<td>Create a student profile with examples of “use of words”</td>
<td>• Teach students to play with words– combine parts of words to form new words</td>
</tr>
<tr>
<td>(lexical and semantic cues and conventions)</td>
<td></td>
<td>• learn and recall words;</td>
<td>• Examine student-made maps and webs for evidence of understanding.</td>
<td>• Multiple exposure to words and repeated reading experiences (messages, word walls, lists).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• learn sight words;</td>
<td>• Present incomplete graphic organizers and have students complete them as evidence of word knowledge.</td>
<td>• Multiple exposure to words in a variety of contexts.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• learn word attack strategies;</td>
<td>• Examine and record vocabulary used by students during a brainstorming activity.</td>
<td>• Teach oral and written vocabulary and link them to prior learnings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• participate in word building activities;</td>
<td>• Miscue analysis/running records.</td>
<td>• Teach strategies on how to approach new words.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• recognize words he/she sees, hears, and writes;</td>
<td>• Quickwitting.</td>
<td>• Incorporate sensory modalities.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• demonstrate visual memory;</td>
<td>Early Literacy: A Resource for Teachers:</td>
<td>• Teach words in the context of a selection or unit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• use strategies to bring meaning to new words;</td>
<td>Sample checklist/Form:</td>
<td>• Draw relationships between new and known words.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• bring meaning to new words he/she sees, hears, and writes;</td>
<td>Sample For Recording Children’s Language Use and Communication Behaviors (p.27).</td>
<td>• Teach students how to use contextual clues to gain meaning.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• continue to expand his/her vocabulary in speech and writing;</td>
<td><strong>English Language Arts K-5</strong></td>
<td>• Teach students how to use reference resources such as dictionaries.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• show interest in increasingly complex text.</td>
<td>Oral Language Assessment (p.128).</td>
<td>• Teach students to use graphic organizers to make word meanings and relationships concrete.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sharing Time Assessment (p.129).</td>
<td>• Teach students mnemonic strategies to personalize meanings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>English Language Arts 6-9</strong></td>
<td><strong>Build a word-rich classroom environment to build word awareness.</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sample Vocabulary Log (p.168)</td>
<td><strong>Use crossword puzzles, word games, sharing of new words–word of the day or mystery word.</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Developmental Stages of Speaking (p.80)</td>
<td>• Have students select new words and word meanings to use in oral reports or writings.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>English Language Arts: 10/20/30</strong> (pp.149, 150)</td>
<td>• Never assume a student has an understanding of new vocabulary–check for comprehension.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Refer to Appendix D.</td>
<td><strong>Teach students a context-clue attack system (ELA 10/20/30 p.150).</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Provide students with context and definitions of vocabulary words.</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Help students develop analogies for new vocabulary words.</strong></td>
</tr>
</tbody>
</table>

Refer to Appendices C & F.

Refer to ELA 6-9.
<table>
<thead>
<tr>
<th>Reading Skills</th>
<th>Areas of Concern</th>
<th>Skills Required</th>
<th>Assessment for Instruction</th>
<th>Instructional Strategies</th>
</tr>
</thead>
</table>
| Comprehension | Student does not understand what he/she has read. | Student is able to:  
- read from the beginning to end of the text;  
- set a goal for reading the text;  
- anticipate what will be in the text based on prior knowledge about the topic of the text;  
- monitor what he/she has read—make decisions to either slow up, reread or skip sections of text;  
- reflect on what he/she has read—think about ideas and use self-talk;  
- create mental images while reading;  
- seek clarification if he/she does not understand;  
- use the cues and conventions of texts (pragmatic, textual, syntactical, semantic, graphophonic, and others);  
- use key reading strategies (e.g., predict and confirm predictions, connect, identify main idea and supporting details, make and confirm inferences, use fix up strategies). | Early Literacy: A Resource for Teachers: Sample Checklist/Form: Sample Checklist for Assessing Retelling in the Emerging Phase (p.162).  
English Language Arts: 6–9 Sample Observation Checklist: Metacognitive Strategies (p.193).  
Sample Reading Strategies Questionnaire (p.189).  
English Language Arts: 10/20/30 Sample Self-assessment for Reading (p.185).  
Graded reading passages with comprehension questions. | - Model a think aloud strategy—Read a story to students, pause and predict what the text may be about and summarize what has been read or use it to link key words in the text to prior learning.  
- Model imagery strategy—What do I visualize as I read this passage? Assist students to create a mental image from the words they read.  
- Model predicting—What will happen next?  
- Guided reading using the above strategies.  
- Teach self-monitoring strategies—if I don’t understand a word what can I do? Do I need to reread this section? What is the main idea? What are the supporting details? Is this fact or opinion?  
- Teach students to summarize while they read.  
- Teach students to identify relevant and irrelevant information.  
- Teach students that good readers are active while they read and model this for them.  
- Provide numerous opportunities for students to practise all of the above.  
- Instruct students using graphic organizers, story charts, and webs.  
- Content Enhancement Strategic Instruction (ACCESS workshop) Refer to ELA: 10/20/30 (p.143, 144, 150, 151) Refer to Appendix A. |

| Reading Fluency | Student cannot read quickly and accurately.  
Student attends mainly to decoding each individual word.  
Student reads with little or no intonation or voice inflection. | Student is able to:  
- recognize words automatically;  
- decode words accurately and effortlessly;  
- use pitch appropriately;  
- construct meaning from text as indicated by phrasing;  
- draw conclusions from text;  
- use background knowledge to make meaning. | Early Literacy: A Resource for Teachers: Sample Checklist/Form: Reading and Writing Interview for Emerging Literacy Learners (p.113).  
English Language Arts: K–5 Sample Reading Interview for Emerging/Early Developing Readers (p.145).  
Sample Running Record of Text Reading (p.149).  
Sample Miscue Summary/Analysis (p.150).  
Sample Assessment of Student's Reading Response (p.153).  
English Language Arts: 6–9 Sample Running Record of Text Reading (p.149).  
Sample Reading Strategies Questionnaire (p.189).  
Sample Proficient Reader Protocol: Anecdotal Notes (p.190).  
Sample Observation Checklist: Metacognitive Strategies (p.193).  
English Language Arts: 10/20/30 Sample Self-assessment for Reading (p.165).  
Suggestion Question Guide for Reading (pp.158-162). | - Provide extensive modeling of fluent reading.  
- Provide students with numerous opportunities to practise the skills of reading.  
- Include many sight words in reading passages to increase automaticity.  
- Use paired, repeated, shared, echo, and/or guided readings.  
- Use constructive feedback as the child reads.  
- Use choral reading and reader’s theatre to make oral reading fun.  
- Teach students to self-identify reading errors.  
- Teach students that reading is a meaning making process and that comprehension is the reason we read.  
- Link reading to prior knowledge.  
- Ensure that students read material at an independent or instructional level to practise fluent reading. Refer to ELA: 10/20/30 (p.143). Refer to Appendix E. |
Table 5.5. Developing the Classroom Writing Intervention Plan

<table>
<thead>
<tr>
<th>Writing Skills</th>
<th>Areas of Concern</th>
<th>Skills Required</th>
<th>Assessment for Instruction</th>
<th>Instructional Strategies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcription Skills: Writing and Spelling</td>
<td>Student is not able to write letters efficiently. Student is not proficient in spelling words.</td>
<td>The student is able to: • demonstrate good visual-motor coordination; • print legibly and space letters, words, and sentences appropriately; • recognize environmental print; • demonstrate an age-appropriate understanding of phonemic awareness and phonics; • maintain attention; • retrieve letters from memory; • spell “regular” words using the phoneme-to-grapheme correspondence rules; • demonstrate memory of spelling patterns and of specific words for “irregularly” spelled words; • use a variety of spelling strategies such as approximations and confirm spelling by using resources such as a word wall; • proofread and edit work for accurate spelling and use dictionaries/spell checkers and other references.</td>
<td>Create a student profile that identifies the following: • letter knowledge; • phonics skills; • high frequency word recognition; • memory for spelling patterns; • letter formation; • orientation to spacing of letters and organization on a page.</td>
<td>• Provide activities in: • writing letters from memory; • copying modelled letters; • alphabet retrieval. • Provide letter lists and word lists for reference. • Draw attention to patterns and similarities by focusing on known words. • Provide activities in: • phonological awareness; • alphabetical principle; • word analysis; • grapheme-phoneme patterns. • Offer opportunities to have sensory exploration of letters. • Practise identifying visual similarities and differences in letters and words. • Provide many opportunities to practise writing and spelling. • Have distributed practice (80 percent old with 20 percent new). • Teach students to use dictionaries and other references. • Teach students to use word processors and spell checkers. • Teach students to be proficient keyboarders. • Teach students strategies to use when they are unable to spell a word and when a resource cannot be accessed. • Use peer proofing and editing. • Provide extra time for studying. • Combine lower level transcription skills with higher level composing skills in an instructional session. • Provide a scribe, voice activated software, and/or computer keyboard if students are unable to transcribe. • Refer to a speech and language pathologist for further analysis if students continue to be unsuccessful in spelling even with direct, intensive instruction. • Refer to an occupational therapist if students are unable to produce legible letters or unable to locate or position letters correctly on a page even with direct, intensive instruction. <strong>Refer to Appendix G.</strong></td>
</tr>
</tbody>
</table>

English Language Arts K-5
Sample Phonological Awareness Diagnostic Assessment Form (p.117).
Sample Letter Recognition and Letter-sound Assessment (p.156).
Sample Spelling Inventory (p.181).
Sample Assessment of Students’ Spelling of Common Sight Words (p.162).
Sample Misspelling Assessment and Analysis (p.183).

English Language Arts 6-9
Spelling Error Analysis (p.203).
Spelling Knowledge and Strategies (p.204).
<table>
<thead>
<tr>
<th>Writing Skills</th>
<th>Areas of Concern</th>
<th>Skills Required</th>
<th>Assessment for Instruction</th>
<th>Instructional Strategies</th>
</tr>
</thead>
</table>
| Composing Skills | Student has difficulty expressing thoughts and ideas in a coherent, meaningful, and comprehensible way. | The student is able to:  
• imitate writing behaviours;  
• dictate short stories to accompany own drawings;  
• understand that what can be said can be written;  
• independently initiate composing activities;  
• demonstrate confidence in his/her composing ability by getting started quickly, and making attempts before requesting help;  
• participate in language experience, and patterned, shared, and guided writing;  
• write stories about familiar events and experiences;  
• reread his/her writings and add more information if necessary;  
• organize writing in a clear beginning, middle, and end;  
• write complete sentences, using capitals and periods;  
• write personal narratives, descriptions, letters, invitations, reports, and poems;  
• write clear introductions and conclusions;  
• focus main idea in a topic sentence;  
• revise draft material by adding, deleting, and rearranging ideas;  
• write single and multiple-paragraph compositions;  
• write compound and complex sentences;  
• extend vocabulary by using homonyms, antonyms, synonyms, and affixes. | Create a profile of student writing that includes:  
• student expressive and receptive language;  
• student interviews; and  
• sample writing.  
Early Literacy: A Resource for Teachers  
Sample Reading and Writing Interview for Emerging Literacy Learners (p. 113).  
English Language Arts K-5  
Sample Emerging/Early Developing Phase Writing Checklist and Rating Scale (pp. 164, 165).  
Sample Interview for Emerging Writers (p. 166).  
Sample Writing Assessment: Form One and Two (pp. 168, 169).  
Sample Rating Scale for Narrative Writing (p. 175).  
Sample Rating Scale for Explanatory Writing (p. 176).  
Sample Writing Record (p. 179).  
Sample Capitalization and Punctuation Inventory (p. 184).  
English Language Arts 6-9  
Sample Writing Strategies Questionnaire (p. 152).  
Sample Writing Process Assessment Checklist (p. 153).  
English Language Arts: 10/20/30  
Sample Writing Process Checklist (p. 129).  
Product Assessment (pp. 130-133). | • Integrate transcription and composition skills into instruction activities in:  
• sentence structures  
• language development  
• stages of writing.  
• Daily writing using journals, big books for writing, magnetic letters, chalkboards, magic slates.  
• Use read, talk, act, and then draw activities.  
• Interactive writing using whole class or small groups where students share the responsibility for writing.  
• Use sentence frames to encourage writing such as: I see..., I have...  
• Provide story starters—keep a bank of possible topics to help students get started.  
• Use pocket charts and cut out sentences to help beginning writers to understand sentence structure.  
• Use sentence imitation to help students write new sentences.  
• Assist students to find words and phrases to explain feelings and thoughts.  
• Provide organizational frames for brainstorming sentence and paragraph development.  
• Provide samples of work and models of each writing stage.  
• Expose students to many possible forms of writing.  
• Continue to read to students daily at every grade level.  
• Ask students to write about their interests and experiences.  
• Use teacher and peer conferences to encourage students to reflect on their writing (this should be a positive interaction).  
• Model and teach students the self-talk involved in writing.  
• Use visual maps to gather information prior to beginning to write.  
• Provide a scribe, voice activated software, and/or computer for those students who despite intensive and direct instruction are unable to put their thoughts into writing.  
Refer to Appendix G. |
6

**GENERAL TEACHING CONSIDERATIONS**

6.1 The Adaptive Dimension

6.2 Strategies and Effective Practices
6. GENERAL TEACHING CONSIDERATIONS

Swanson (1999) analyzed various instructional procedures and strategies to determine best practice when teaching students with reading disabilities. The following suggestions are summarized from the research:

- Combine a direct instruction approach with strategy instruction. Direct instruction includes teacher-directed lectures, discussions, and language-based learning. Strategy instruction refers to teaching students “how to learn” (e.g., test-taking skills, study skills, organizational skills).
- Present information to students in a carefully sequenced manner from simple to more complex tasks. Break it into manageable parts and then synthesize the parts into a whole. Repetition and practice are required for the acquisition and retention of information.
- Teach and model problem solving.
- Use small group instruction.
- Use interactive questioning and answering.
- Cue students to use a variety of strategies.
- Be sure intervention strategies match student’s learning profile and strengths.

Other teaching suggestions to consider:

- Ask students which strategies have been most successful for them.
- Provide a rich language environment with exposure to many types of writing materials.
- Create frequent and authentic opportunities to read and write.
- Use themes to organize instruction.
- Set students up with a “study buddy” (someone with whom to double-check directions and assignments if necessary).
- Give students intermittent due dates in order to assist them along the way with lengthy assignments/projects.
- Deliver directions in a clear, concise manner.
- Break learning into manageable parts and assist students to synthesize the parts into a meaningful whole and to attach their understanding to prior knowledge.
- Repeat important information.
• Use advance organizers when presenting material (e.g., steps in problem solving).

• Communicate frequently with parents/caregivers to establish a good working relationship.

• Utilize a multi-sensory instructional approach incorporating the auditory, visual, tactile, and kinesthetic sensory modalities. Students are then able to hear, see, feel, and experience information.

• Supplement auditory information with visual cues.

• Encourage students to paraphrase instructions and directions to ensure comprehension of information.

• Actively engage students in the learning process. According to Bloom (1987), learners will retain 90 percent of what they say and do.

6.1 The Adaptive Dimension

Students with reading disabilities face many challenges within a school setting on a daily basis. Adaptations made within the learning environment can significantly reduce the difficulties students face.

Students who are reading disabled often do not need a modified or qualitatively different program. Rather, they require adaptations to the regular curriculum tailored to their individual learning strengths, needs, and interests. The Adaptive Dimension in Core Curriculum (Saskatchewan Education, 1992) requires teachers to make adjustments to instruction, the environment, curriculum topics, and materials to accommodate student diversity and to help all students achieve curriculum objectives. It is important to remember that adaptations must be provided to students in order to give them the same opportunity as their peers to attain the learning objectives of the regular curriculum. Adaptations should not be viewed as giving students an advantage over others or as special treatment. Adaptations are not meant to replace direct instruction in those areas most affected; that is, classroom teachers are expected to teach reading skills to students with reading difficulties. Tables 6.1 – 6.12 will assist teachers in providing adaptations for students with specific difficulties. It is important to keep a record of all adaptations. It is the responsibility of the classroom teacher to make next year’s team aware of what adaptations have been used successfully.
6.2 Strategies and Effective Practices

Table 6.1. Adaptations for Students with Receptive/Expressive Language Difficulties

- Give students more time to respond verbally as it often takes them longer to process oral language.
- Give students more time to read passages or fewer passages to read because they are typically slow readers.
- Give students more time to complete written assignments as it often takes them longer to get their thoughts down on paper.
- Provide clear and concise instructions.
- Encourage students to paraphrase instructions.
- Provide real life examples of verbal concepts.
- Use cooperative learning teaching methods to allow students to utilize their strengths within a group.
- Provide opportunities for peer tutoring.
- Provide a reader and/or scribe when necessary.
- Provide models and writing samples for assignments.
- Allow alternate formats of assignments.
- Use a multi-sensory (auditory, visual, tactile, kinesthetic) instructional approach.
- Use demonstrations and modelling to get information across to students.
- Pair students to check directions and instructions.
- Provide a rich language environment with numerous opportunities to engage in small group listening and speaking activities.

Adapted from Mather & Goldstein (2001); New Brunswick Department of Education (1999).
Table 6.2. Adaptations for Students with Auditory/Phonological Processing Difficulties

- Supplement lectures and directions with visuals.
- Use models, flowcharts, graphs, concept webs, and diagrams as visual aids.
- Use demonstrations to get information across to students.
- Provide a written copy of lectures.
- Provide an advance visual organizer for lectures by giving students an outline of material to be covered in class.
- Provide directions in a clear, concise manner.
- Articulate words clearly.
- Have students repeat or paraphrase directions.
- Allow students to tape record lectures.
- Decrease excess noises in class such as overhead fans, buzzing lights, fish tank, wheels in gerbil cage.
- Provide a written record of deadlines and testing days.
- Allow students to tape record their answers for examinations.
- Provide books on tape, CD, or computer.
- Provide alternative reading materials (high interest/controlled vocabulary).
- Pair students to check directions and instructions.
- Break longer presentations into shorter segments.
- Write key points/vocabulary on the board.
- Provide a sound field system in the classroom.

Adapted from Mather & Goldstein (2001); New Brunswick Department of Education (1999); Wood (1996).
Table 6.3. Adaptations for Students with Visual Processing Difficulties

<table>
<thead>
<tr>
<th>Adaptation</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Reduce the amount of reading material on a page.</td>
</tr>
<tr>
<td>• Use a larger font for printed materials.</td>
</tr>
<tr>
<td>• Allow a scribe during timed tests or allow extra time.</td>
</tr>
<tr>
<td>• Teach students keyboarding skills.</td>
</tr>
<tr>
<td>• Provide students with a portable keyboard or computer.</td>
</tr>
<tr>
<td>• Accept oral reports.</td>
</tr>
<tr>
<td>• Allow students to use finger or guide (ruler) when reading.</td>
</tr>
<tr>
<td>• Teach students highlighting techniques.</td>
</tr>
<tr>
<td>• Highlight or bold important information for students.</td>
</tr>
<tr>
<td>• Provide students with a copy of lecture notes.</td>
</tr>
<tr>
<td>• Try using non-glare visual overlays.</td>
</tr>
<tr>
<td>• Provide students with graph paper to assist with organization.</td>
</tr>
<tr>
<td>• Provide writing guides to help students organize their written work.</td>
</tr>
<tr>
<td>• Allow for spelling errors on examinations and in class writing.</td>
</tr>
<tr>
<td>• Demonstrate and model a quality assignment.</td>
</tr>
<tr>
<td>• Provide an outline of the grading criteria for each assignment.</td>
</tr>
</tbody>
</table>

Adapted from New Brunswick Department of Education (1999); Wood (1996).
Table 6.4. Adaptations for Students with Visual-Motor Processing Difficulties

- Provide students with guides and outlines for written projects.
- Provide students with supports to make notes such as a graphic organizer, a copy of lecture notes.
- Teach students how to use a graphic organizer.
- Teach students keyboarding.
- Provide students with portable keyboard or computer.
- Allow students to do oral presentations instead of writing.
- Provide a scribe.
- Recognize that it may be necessary to adapt evaluation procedures for students who have difficulty completing fine and/or gross motor activities.
- Break down new gym activities into smaller steps that are easier to learn and achievable.
- When teaching students a new skill, demonstrate the task and position the body so they can “feel” how to perform the task.
- Provide opportunities to practise skills prior to gym class with a smaller group or on an individual basis.
- Provide students with extra time to complete a task.
- Monitor students’ grasp of pencil.
- Provide students with pencil grip to encourage proper tripod grasp.
- For younger students, consistently model left-to-right sequencing.
- Familiarize students with the floor plan of the school as some students may experience orientation difficulties.
- Keep classroom organized and clear of clutter.
- Have a peer buddy to help with directional concepts such as “find the bottom right hand corner of the page”.

Adapted from Alberta Education (1996); Wood (1996).
<table>
<thead>
<tr>
<th>Adaptations for Students with Attention Difficulties</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Gain students’ attention before speaking.</td>
</tr>
<tr>
<td>• Use a multi-sensory (auditory, visual, tactile, kinesthetic) instructional approach.</td>
</tr>
<tr>
<td>• Give students more time to complete tasks.</td>
</tr>
<tr>
<td>• Allow students to write examinations in a room free of distractions.</td>
</tr>
<tr>
<td>• Set students up with a study buddy–someone with whom a student can double check for instructions and assignments.</td>
</tr>
<tr>
<td>• Provide students with daily schedule.</td>
</tr>
<tr>
<td>• Reinforce students for persistent effort.</td>
</tr>
<tr>
<td>• Alternate tasks that have high activity with tasks that require low activity.</td>
</tr>
<tr>
<td>• Bring students’ interests into assignments.</td>
</tr>
<tr>
<td>• Provide study carrels or booths for students to work in so they can use their assistive technology in the classroom.</td>
</tr>
<tr>
<td>• Cue students to stay on task (nonverbal signals).</td>
</tr>
<tr>
<td>• Use self-monitoring strategies and teach the strategies.</td>
</tr>
<tr>
<td>• Send daily/weekly progress notes home to track improvement patterns.</td>
</tr>
<tr>
<td>• Develop a reward system for completion of homework and schoolwork.</td>
</tr>
<tr>
<td>• Break assignments into small segments.</td>
</tr>
<tr>
<td>• Seat students near positive role models.</td>
</tr>
<tr>
<td>• Increase distance between desks.</td>
</tr>
</tbody>
</table>

Adapted from Alberta Learning (1996); Mather & Goldstein (2001).
### Table 6.6. Adaptations for Students with Memory Difficulties

- Teach students to organize themselves and their materials in such a way as to promote good recall. Students need to be able to identify what works best for them.
- Provide extra time for questions and tests to accommodate slower retrieval of information.
- Provide brief daily review sessions to reinforce long term memory.
- Provide a list of key words to trigger memory on long essay questions.
- Teach students to use visual imagery.
- Use a multi-sensory (auditory, visual, tactile, kinesthetic) instructional approach.
- Use the Every Pupil Response (EPR) strategy. Have all students respond to questions by using finger signals, small individual white erase boards or chalkboards. With the EPR strategy, all students are involved as opposed to one student responding.
- Promote learning and memory by involving students in cooperative learning activities.
- Encourage students to recite/rehearse information.
- Teach students acronyms to remember information (e.g., HOMES = Huron, Ontario, Michigan, Erie, Superior).
- Develop acrostics to remember information (e.g., Make a sentence to cue words or letters. Every good boy deserves fudge. (e, b, d, f, for musical notes).
- Focus less on memorization and more on applied problem solving and meaning.
- Have students teach the material to someone else as an effective technique for reinforcing information.
- Encourage students to study with partners and ask each other questions.

Adapted from Alberta Education (1996); Banikowski & Mehring (1999); Mather & Goldstein (2001); New Brunswick Department of Education (1999).
Table 6.7. Adaptations for students with Metacognitive Difficulties

- Teach students to recognize their learning strengths and the adaptations and strategies that work best for them.
- Ask metacognitive questions to prompt students to develop their own self-regulation for learning. For example:
  - How am I going to remember my lunch? my homework?
  - How can I ensure I understand what I am reading?
  - What can I do to remember this concept?
- Remind students that metacognition is an important part of the problem-solving process. Good problem-solving strategies include:
  - understanding the question/problem;
  - considering alternatives to solving the question/problem;
  - choosing a solution;
  - monitoring the choice;
  - evaluating the plan; and
  - remediating if necessary.
- Model and demonstrate various problem solving strategies by “thinking aloud”.
- Use questioning techniques that encourage students to reflect on their thinking.
- Model higher order questioning skills.
- Increase the wait time after questioning to encourage higher level thinking and to increase the number and length of student responses.
- Make a list of problem solving behaviours to post in the classroom.

Adapted from Alberta Education (1996); Mather & Goldstein (2001).
Table 6.8. Adaptations for Students with Test-Taking Difficulties

- Give students more time to write examinations.
- Allow students to write examinations in a quiet room, free from distractions.
- Give students the option of an oral examination.
- Provide a reader and/or scribe for examinations.
- Teach students to create study notes and allow use of these during test taking.
- Allow open book examinations.
- Give take home examinations.
- Give students frequent short quizzes as opposed to long examinations.
- Keep directions short and simple; avoid unnecessary words.
- Go over directions before the test. Be sure students understand what is to be done.
- Teach students how to approach tests in a systematic manner (e.g., look over entire test, check value system).
- Use alternative grading techniques:
  - grade by achievement level (above or below average);
  - grade by progress (how much learning has occurred);
  - alternative grades (pass/fail or satisfactory/unsatisfactory); and
  - task mastery grading (must attain a certain level of mastery).

Adapted from Mather & Goldstein (2001); Wood (1996).
Table 6.9. Adaptations for Students with Homework Completion Difficulties

<table>
<thead>
<tr>
<th>Adaptation</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Ensure that students are able to do the assignment.</td>
</tr>
<tr>
<td>• Adjust the length of the assignment.</td>
</tr>
<tr>
<td>• Provide intermittent due dates for assignments.</td>
</tr>
<tr>
<td>• Adjust due dates.</td>
</tr>
<tr>
<td>• Provide a peer tutor or study buddy.</td>
</tr>
<tr>
<td>• Arrange a study group.</td>
</tr>
<tr>
<td>• Provide choices for assignments (e.g., write an essay, design a poster, or demonstrate an interpretive dance that depicts the Swahili culture).</td>
</tr>
<tr>
<td>• Provide options for extra credit.</td>
</tr>
<tr>
<td>• Reduce the amount of homework given to students who have reading and writing difficulties because it can take them twice as long to complete the work.</td>
</tr>
<tr>
<td>• Teach parents how to assist their children with homework completion.</td>
</tr>
</tbody>
</table>

Adapted from Mather & Goldstein (2001); Schloss, Smith, & Schloss (2001).
Table 6.10. Adaptations for Students with Study and Organizational Difficulties

- Be consistent, predictable, and structured.
- Ensure that students know what to expect.
- Colour-code books or assignments.
- Provide individual file folders or writing binders.
- Hole-punch all handouts before handing them out.
- Provide students with a homework log and/or calendar that fits in binder and teach students how to use.
- Monitor the use of calendars and organizers.
- Provide clear, written expectations for each assignment.
- Use a classroom calendar and remind students of due dates.
- Give students a checklist to follow with specific dates given for completion of individual parts of an assignment.
- Provide a list of assignments and examinations to parents/caregivers.
- Maintain an organized classroom.
- Hand out worksheets/readings one at a time.
- Have supplies readily accessible for students.
- Teach students organizational skills (e.g., establish priorities, make lists, follow schedules).
- Assign volunteer homework study buddy.
- Allow students to have an extra set of books at home.

Adapted from Mather & Goldstein (2001); New Brunswick Education (1999).
Table 6.11. Adaptations for Students with Social Skills Difficulties

- Model and role play social situations to give students practice working through issues.
- Provide immediate specific feedback after a social skill has been practised.
- Tape a self-monitoring checklist to students’ desks (when age appropriate) and establish a cueing system to signal when to self-monitor (e.g., students may periodically hear a tone from an audiotape set at designated intervals or a quiet alarm on a watch).
- Be proactive—establish classroom procedures, rules, and consequences with students.
- Post list of responsibilities of students and teachers.
- Develop a listening checklist.
- Help students develop an internal locus of control by reinforcing their roles in successes. Say, “You did well; you must have worked hard on that.”
- Have students repeat similar tasks they have completed successfully to ensure they understand that they are responsible for their achievements.
- Reinforce students for making positive statements.
- Model caring, respect, and acceptance.
- Provide encouragement and support.
- Review behaviours necessary for following directions:
  - look at speaker;
  - listen;
  - repeat directions to yourself;
  - ask for clarification if needed; and
  - perform directions.
- Discuss the correct procedures for asking for assistance:
  - Have you thought through the problem?
  - How will you make the request?
  - How will you indicate to another that you need assistance?
  - Did you wait for your turn to be assisted?
  - Did you thank the person assisting you?

Adapted from Alberta Education (1996); Wood (1996).
Table 6.12. Assistive Technology Adaptation

- Assistive technology refers to any item, piece of equipment, or product that is used to help individuals improve their ability to perform specific tasks.

- Provide students with a word processor and teach them how to use it effectively.

- Provide assistive technology such as speech to text software (as student speaks text appears on computer screen), text to speech software (computer reads books, newspaper, web information to student), and software that voices what a student types.

- There are many hardware tools such as: Alpha Smart (portable keyboard), QuickLink Pen (handheld text scanner), and Reading Pen II (handheld tool that allows students to scan a word, hear the word read aloud, and get the definition). Please refer to Appendix J for details on Assistive Technology.

Please refer to The Adaptive Dimension in Core Curriculum (Saskatchewan Education, 1992) and Core Curriculum Components and Initiatives: Important Understandings (Saskatchewan Learning, September 2003a) for further information on adaptations for students with diverse needs.
7

TRANSITION PLANNING

7.1 Key Principles of Effective Transitions

7.2 Facilitating Effective Transitions
7. Transition Planning

A transition is any event that results in changes to relationships, routines, assumptions, or roles. Transitions are a normal part of life and occur throughout the life cycle. For students, transitions occur at various times during their educational programs; for example, starting school, changing grades, and moving from school to post-school settings. While any student can have difficulty with transitions, students with learning disabilities often have more difficulty managing the transitions in their lives.

7.1 Key Principles of Effective Transitions

Effective transitions are planned

In order for any transition to be successful, it must be carefully planned. Planning should start well in advance of the actual transition regardless of whether a student is

- moving from one activity to another;
- moving to another grade;
- graduating from high school;
- transitioning to a workplace; or
- getting to know new support people.

Programming decisions need to be based on an understanding of the individual student. This means understanding the individual student’s strengths, needs, and goals as well as those of the student’s family. Similar to Personal Program Planning (PPP), transition planning should be dynamic and ongoing because preferences regarding transition objectives may change. Finally, a written record of transition planning, including transition goals and strategies, should be included in a student’s PPP.

Effective transitions are the result of a collaborative effort

Successful transitions involve input from a variety of people, including students, parents, special and general education teachers, and community-based personnel. Collaboration is directed toward creating a supportive relationship and providing a problem-solving approach to transition planning.

As students move through the educational system, they need to become more involved in planning their own transitions. Research has consistently shown that student involvement in the planning process helps students to develop an understanding of their learning
Effective transition planning is comprehensive in scope

Students with learning disabilities may face a variety of challenges, including academic, social, vocational, and interpersonal difficulties. As a result, transition planning should focus not only on the academic skills needed for success, but also on helping students develop the ability to problem-solve in new situations, to monitor and regulate their own performance, and to interact appropriately with peers and authority figures. Comprehensive transition planning also means helping students become aware of their strengths and the type of supports and adaptations available to them in dealing with their learning difficulties.

7.2 Facilitating Effective Transitions

During the Elementary School Years the Transition Plan should include the following:

• strategies to help the student feel comfortable with new surroundings and people, (e.g., arranging for the student to visit new classrooms and meet with new teachers);
• identifying the skills the student will need in the next environment and providing opportunities to learn these skills;
• parent involvement in becoming advocates for their child;
• listening to student’s concerns about transitions. Engage in frequent discussion about the transition and highlight the positive aspects of a new environment;
• establishing consistent homework and study routines;
• encouraging the student to become an independent learner and praising his/her effort;
• teaching effective organization and study strategies, such as time management, note taking, test preparation, and test-taking strategies;
• highlighting student strengths, needs, and effective strategies for subsequent teachers; and
• a copy of the Personal Program Plan in the student’s file.
During the Middle Years the Transition Plan should include the following:

- planning opportunities to begin exploring career interests;
- student awareness of his/her learning strengths;
- student involvement in transition planning and goal setting;
- teaching the student to monitor his/her progress and developing a plan to share perceptions with the planning team;
- teaching the student to become a self-advocate;
- teaching the student effective study strategies, such as time management, note taking, test preparation, and test-taking strategies;
- exploring appropriate assistive technologies;
- awareness of student strengths, needs, and effective strategies for subsequent teachers; and
- a copy of the Personal Program Plan in the student’s file.

During the High School Years the Transition Plan should include the following:

- active parent involvement;
- career exploration;
- highlighting the differences between high school and post-secondary settings;
- teaching learning, study, and organizational strategies;
- awareness of appropriate adaptations and assistive technologies;
- all the necessary documentation to receive support in post-secondary settings;
- exploring post-secondary institutions and other community-based services; and
- a copy of the Personal Program Plan in the student’s file.


As students prepare to transition, it is extremely important they have a clear understanding of what they need in order to be academically successful. As students enter the secondary level they should be aware of and be able to implement the steps of self advocacy.

Please refer to Appendix I for:
- Transition Checklist.
- Post-Secondary Institutions and Community Based Services for Students with Learning Disabilities.
8

SELF-ADVOCACY

8.1 Challenges to Self-Advocacy

8.2 Facilitating Self-Advocacy

8.3 Conclusion
8. **Self-Advocacy**

Self-advocacy refers to taking action on one’s own behalf. Studies of highly successful adults with learning disabilities have identified the ability to self-advocate as an important factor contributing to success. Acts of self-advocacy can lead to self-determination, which contributes to positive outcomes for adults with learning disabilities. Self-determination can be defined as the ability to consider options and make choices that affect one’s future.

Students with learning disabilities need to advocate effectively for themselves. They need to learn strategies for problem solving and setting goals. They need to be aware of both their strengths and areas of difficulty, be able to understand and accept their learning disability, and to take responsibility for themselves. As students are developing self-advocacy skills, they need to have the opportunity to practise these skills in a supportive environment. The process needs to begin early in the student’s school career and to be practised actively in the adolescent years.

8.1 **Challenges to Self-Advocacy**

*Students with learning disabilities may not self-advocate effectively for a number of reasons.*

- They may lack knowledge of themselves as learners and have difficulty clearly describing their abilities, their needs, and the conditions that best promote their learning.

- They may not know who to speak with to obtain the necessary assistance or adaptations, what to ask for or how to best utilize supports.

- They might lack the ability to articulate personal strengths and needs clearly and appropriately. This may be a result of expressive language difficulties, weak social skills or lack of practice in describing their needs.

- They may not have been directly taught appropriate self-advocacy skills and/or do not have someone to coach them through situations where they might have to self-advocate.

- They may have limited confidence in their abilities and low self-esteem. As a result, they may be reluctant to ask questions in class or to ask for extra assistance. They may not want to be thought of as stupid or a trouble maker.
• They may be passive in their approach to their education, feeling that their educational future is beyond their control. This includes relying on their parents and teachers to advocate for them.

• They may encounter people (home, school, community, workplace) who do not understand learning disabilities and why adaptations or assistance might be appropriate.

8.2 Facilitating Self-Advocacy

Involve the student in decision making about his/her education.

• Involve the student in planning and implementing the Personal Program Plans. The student’s input and involvement should increase as he/she proceeds through school.

• Provide opportunities for making plans and having choices.

• Involve the student in evaluating performance and increasing self-monitoring and personal responsibility for learning (e.g., goal setting, rubrics, portfolio assessment).

Help the student understand his/her strengths and needs.

• Talk with the student about the concept of learning disabilities and his/her particular strengths and needs.

• Provide specific feedback that assists the student to understand how he/she learns best (e.g., “You seem to remember better when you get a chance to ‘see’ the information”).

• Assist the student in learning to describe his/her thinking. Talk aloud describing your own thinking and encourage the student to talk aloud about their thinking. Rephrase their ideas to highlight their learning strengths and needs.

• Explain assessment results so students understand their abilities, their needs, and the implications for their schooling and life.

Model and teach appropriate self-advocacy skills:

• Younger students first learn self-advocacy skills through observing how parents, teachers, and others advocate on their behalf. Begin early by discussing their learning strengths and needs with children, as well as your observations on how they learn best. Also, involve children in conversations about program planning. Even if they just listen, they are learning about collaboration and problem solving.
• Steps for self-advocacy for teens can be found in several resources. These skills need to be:
  • demonstrated;
  • role-played;
  • practised; and
  • evaluated.
Extensive guidance needs to be provided during the middle years with greater expectations for independence during the secondary level.

• Help students to prepare for meetings, conversations with instructors, or other situations where they may be involved in planning their educational future. Model and role-play appropriate interactions.

• Self-advocates need to be informed and organized in order to be effective. Helping students prepare and organize their information may assist with the advocacy process.

• Students may also learn a great deal from others who have gone through similar experiences. Provide students opportunities to meet mentors with learning disabilities so they might learn from the experiences of these individuals.

Help students set appropriate and realistic goals for their learning:

• A very important part of educational decision making for students with learning disabilities is setting appropriate goals. Students themselves should be actively involved in this process and taught ways to make goals tangible and realistic. One strategy is to make goals SMART: Specific, Measurable, Achievable, Realistic, and Time Related.

• Follow up with students to review their success in achieving their goals. Self-monitoring and evaluation are important for developing realistic goals.

Reproduced with permission from Alberta Learning, Unlocking Potential: Key Components of Programming for Students with Learning Disabilities (Edmonton, AB: Alberta Learning, 2002), pp.41-44.
8.3 Conclusion

...there is no one answer to understand why an adolescent struggles with reading. For there to be only one answer, there would have to be only one cause, and for there to be one cause, all students would have to be alike, learn alike, have had the same experiences. Instead, there is no single template for the struggling reader. Second, while there is no single answer, there are answers. My chant of ‘These kids can’t read’ wasn’t the wrong chant—they couldn’t read. What was wrong was using that as an excuse for not teaching them. Once I was willing to add the question, “They can’t read, so what am I to do?” then answers—not one, but many—began to emerge. (Beers, 2003, p.7)

Not a Matter of Luck

Most of my peers look back on their grade school experience as positive; I remember school as a very difficult time in my life, one which was fret with embarrassment, disappointment, shame, but ultimately commitment. It was around the third grade teachers began to notice I was falling behind other students particularly in the areas of writing, reading and spelling. I don’t remember exactly how it happened but I do remember being introduced to a very caring individual who had me complete puzzles, picture cards and other activities. I now understand he was assessing my abilities and academic achievement. He then explained to my parents that I had a learning disability, which affected auditory processing. In short I was and am unable to decode words by “sounding it out”. spelling was impossible and of course this affected my ability to express my thoughts in writing. For the next four years I worked with special education teachers which often involved going to the “dumb kid room”. I wonder if schools will ever figure out a way to provide instruction without the misperception. It was so embarrassing; however what I learned during these sessions changed how I approached learning. They taught me firstly that I was neither dumb nor slow but rather that I learned differently. There would be areas that I would never master but with the proper accommodations and strategies I could learn and more importantly demonstrate my understandings. The teachers in my small rural school expended a great deal of time and energy working with both my parents and myself to adapt class materials to accommodate my identified learning abilities.

continued
Poor school performance tends to **deplete** a kid’s self esteem and I was no different. I had no true sense of who I was or what I was capable of, except the guy who “sucked at school.” My parents quickly picked up on the problem and attempted to help me find my areas of strength. From guitar lessons and band to after school volleyball and hockey camp they exposed me to all sorts of activities with the hopes I might find my niche. When I turned twelve I developed a strong interest in waterskiing. I remember telling my parents “this is what I want to do!” They listened and signed me up for lessons. The coach explained to them I had a talent for the sport and suggested I compete the following year. I recall an incredible feeling of accomplishment, which many people tend to take for granted and I don’t think I can really explain. On the water I was an equal. I focused all my efforts on the desire to excel in this sport and as a result, my self-esteem and grades began to improve. Mom and Dad apparently understood how difficult it was and how hard I had to work to do what most kids took for granted. They also understood that without assistance I would continue to feel frustrated and perhaps even overwhelmed. So I was encouraged to excel in sports while trying to do my best at school. For the most part my parents and teachers worked together to ensure things moved ahead.

Transition to high school was not easy. Most teachers were understanding and gave special consideration to my academic needs however, for every ten exceptional teachers one will not or cannot understand. These are the teachers who think if only you tried harder, study more, or perhaps you are just not smart enough to graduate. There was one teacher in high school who believed a strict diet of criticism and ridicule would improve my spelling. It is strange how you never forget the really great teachers but you also never forget the times when you were embarrassed in front of your friends. When these things happened my parents would listen, investigate and never hesitate to meet with teachers. They insisted I attend these meeting and now as an adult I understand why.

Following graduation I was off to university. My first year was pretty much a write off or as I like to call it an “adjustment period”. I realized I had to become better at self-monitoring my study habits and seek out better strategies for success. I took a year off to review all my options, and with the support of my parents, I decided to enroll in a university which offered sports scholarships. Realizing sports was the key to maintaining my self-esteem I focused on training. I sought out fellow team members who had developed positive study habits and modeled their strategies. Early morning study sessions, when I was alert and awake, followed by training and classes, this schedule became my
motto and it paid off. I graduated with a BA in Psychology, a member of the Dean’s List, and was inducted into the Honors Society for Psychological Study.

Although I now had a degree I still felt I had more to prove to myself. I decided I had to continue with my studies. Again, after a year of reviewing my options I enrolled in a Masters Program for Education Psychology. I successfully completed the program in 2000. I never fell behind and I never failed a class. It may have taken me longer to complete assignments or to read that one page which never seemed to sink in, but I always managed to get the job done. Throughout the program I consistently used the strategies that had worked in the past, a strict regiment of studying, allowing plenty of time for reading assigned materials, and passing all written materials through a word processor and having friends edit my papers. It seems so simple now, but these strategies took a long time to learn and perfect.

I now manage a treatment program for offenders. I oversee two other therapists and quality control all psychological reports for content (how’s the irony in that?). I still have a learning disability, but I manage by using all the strategies I have learned throughout the years. I make lists, try never to spell in public (never enter spelling bees or scrabble contests) and to never debate someone about multiplication facts since that is another area which is often affected, math facts. So you might say isn’t he lucky and you’re right but luck doesn’t have much to do with it. There are certain things that made the difference. The best advocate a child with a learning disability has is a parent. My parents stood by my side through all the tough times, never once believing I was just a “dumb kid”. They had realistic expectations of my ability based on the assessments provided to them. They encouraged me to participate in as many extracurricular activities as I could, to explore my other abilities, and to most importantly, feel good about who I was. They also took time to learn everything they could about learning disabilities. Also important were the teachers who made the accommodations, taught the strategies and who believed I had the ability. A recipe for success, parents, teachers, and the child working together. Most important for me was I understood the problem, knew I had potential and was fortunate to be part of terrific family.

RF B..A, M.Ed.
Institutional Psychologist

*** As an aside, all of the bold words are spelt incorrectly. I’m comfortable with that ***
APPENDIX A

Strategies and Resources for Assessing and Teaching Reading Comprehension

A1 Assessment of Reading Comprehension

A2 Components of Reading Comprehension Instruction

A3 Reading Comprehension Activities to Get You Started
### A1.1. Retelling: Sample Checklist for Assessing Retelling in the Emerging Phase 1

<table>
<thead>
<tr>
<th>Child’s name: ______________________________</th>
<th>Date: ________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title of story: ____________________________</td>
<td></td>
</tr>
</tbody>
</table>

Place a check mark next to each element the child includes in her or his retelling. Note the extent to which the retelling was “Assisted”. Add anecdotal comments as soon as the child returns to another activity.

**Setting**
- Tells where the story begins, or makes a statement about time and place.

**Characters**
- Names the characters at some point in the retelling.
  
  *(Include one check mark for each character that was included)*.

- Describes some characteristic/s of the characters (e.g., personalities, appearance).
  
  *(Include one check mark for each characteristic mentioned)*.

**Episodes**
- Describes the main events or episodes in the story.
  
  *(Include one check mark for each event)*.

**Ending (problem resolution)**
- Describes how the story’s problem was solved or an important goal (desire, wish) was attained.

**Sequence**
- Retells the story in the correct order from beginning to end. *(Include three check marks if all episodes were told in order; two check marks if most were in order; one check mark if some attention was paid to the order).*

**Book Language**
- Uses some of the author’s language in the retelling.
  - begins with a story phrase like Once upon a time
  - uses descriptive words the author used such as, enormous
  - uses phrases or repetitions from the book *(e.g., “Not I”, said the ____)*.

**Assistance** *(none, a little, a lot)*

Comments *(Behaviours noted during retelling, asides the child made, etc.)*

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From *Early Literacy: A Resource for Teachers* (p.52) by Saskatchewan Learning, 2000, Regina, SK: Author.
A1.2. Retelling a Story by Using Questions

<table>
<thead>
<tr>
<th>Name:</th>
<th>Grade:</th>
<th>Date:</th>
</tr>
</thead>
</table>

**Title:**

<table>
<thead>
<tr>
<th>Setting:</th>
<th>Where did the story take place?</th>
<th>When did it happen?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characters:</td>
<td>Who was in the story?</td>
<td>What was he/she like?</td>
</tr>
<tr>
<td>Problem/Goal:</td>
<td>What was the main problem or goal?</td>
<td></td>
</tr>
<tr>
<td>Main Events:</td>
<td>What happened first, second, and third in the story?</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solution/Resolution:</td>
<td>How was the problem solved or the goal achieved?</td>
<td></td>
</tr>
</tbody>
</table>

Students can retell stories through various modalities:
- Speaking
- Writing
- Drawing
- Dramatization

From *Orchestrating Success in Reading* (p.487) by D. Reithaug, 2002. West Vancouver, B C: Stirling Head Enterprises. Reprinted with permission.
A2 Components of Reading Comprehension Skills and Strategies

Many reading strategies have been developed by numerous researchers. Collins, Block, and Pressley (2002) outline several categories of comprehension strategies that have been found to be successful.

- **Comprehension Monitoring**
  Students are taught how to be aware of their understanding of the material.

- **Question Generation**
  Students are taught to ask themselves questions about various aspects of the story or informational text.

- **Use of Graphic and Semantic Organizers**
  Students are taught how to make graphic representations of the reading material.

- **Prior Knowledge**
  Students are taught to relate the content of the text to their personal lives and attempt to make predictions based on their knowledge.

- **Mental Imagery**
  Students are taught to create pictures in their heads that represent the text they have read.

- **Summarization**
  Students are taught to find the main ideas.

- **Question Answering**
  Students answer questions posed by the teacher and receive immediate feedback.

Adapted from Collins Block, & Pressley (2002); National Institute of Child Health and Human Development (2000).
A3  Reading Comprehension Activities to Get You Started

Self-Questioning Strategies
Proficient readers frequently self-monitor their reading. For example, they often stop while reading to ensure they are comprehending the material they are reading. They ask themselves, “Does this make sense?” If it does not, they will go back to where they were “connected” with the text. It is important for teachers to model self-questioning strategies. Cue students to ask questions. Self-questioning helps students monitor and comprehend the material being read.

- Does this make sense?
- What has happened so far?
- What will happen next?
- How does this relate to what I already know?

Adapted from Alberta Education (1996).

5 W’s – Why, When, Where, What, and Who

- As students read, they lightly write in the margin the appropriate cue (one of the 5 w’s) and highlight the pertinent information.
- After reading, the students go back to the cues and use them as the basis for making notes and reviewing the content.

Adapted from Learning Disabilities Association of Canada (1999).

Reciprocal Teaching Strategy
The teacher models the following steps prior to students using the strategy in a small group setting. Students take turns being the “leader” of the group and applying the following steps:

1. Predict what will happen in the text by using headings, subheadings, pictures, charts, and any other information that might be helpful.
2. Read the passage independently or together.
3. Question – formulate questions about what was read.
4. Summarize the important information.
5. Clarify any information that is difficult to understand and review the meaning of any new vocabulary.
6. Predict what might occur later in the text.

Adapted from Palincsar, & Brown (1984).
Form a Visual or Mental Picture

- Initially, **read out loud** a variety of descriptions and have the students follow along in the text. Begin with **familiar descriptions** or **simple ones**. As you read the description, encourage the students to try to picture it in their minds.

- Then have the students do a follow-up activity:
  - match the description to the picture;
  - draw a picture;
  - discuss the description;
  - write a response or a reaction; and
  - write a descriptive passage and present it to the group.

- Once the students have developed this skill, have them silently read a descriptive passage and do one of the above activities. Encourage students to “see” what they are reading—the details, the colours.

- Works well with any form of literature.

Peer Assisted Learning

- Students work in pairs and discuss what they have read. After students read a passage, they discuss the content. The following questions can guide their interactions.
Learning with a Peer

<table>
<thead>
<tr>
<th>Understanding Stories</th>
<th>Understanding information in social studies, science, and other texts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Who were the characters?</td>
<td>How did the author organize the information?</td>
</tr>
<tr>
<td>Where did the story take place?</td>
<td>What picture or charts went with the information in the text?</td>
</tr>
<tr>
<td>What happened in the story?</td>
<td>Reread the most important part.</td>
</tr>
<tr>
<td>Why did these things happen?</td>
<td>Did the author have an opinion about the topic? If yes, what was his/her opinion?</td>
</tr>
<tr>
<td>How did things turn out?</td>
<td>How could the text be arranged differently?</td>
</tr>
<tr>
<td>How was this story similar or different to other stories you have read?</td>
<td></td>
</tr>
<tr>
<td>Optional: Complete a story map.</td>
<td>Optional: Complete a graphic organizer.</td>
</tr>
</tbody>
</table>

SCORE

S – Setting
  • Where
  • When
  • Main Characters

C – Conflict
  • Problem

O – Order of Events (plot)
  1.
  2.
  3.
  4.
  5.

R – Reaction of Main Characters (internal and external)
  1. __________________________________________________________
     __________________________________________________________
     __________________________________________________________
  2. __________________________________________________________
     __________________________________________________________
     __________________________________________________________

E – Ending (resolution of conflict)

From Accommodating Students With Reading and Writing Difficulties in the General Education Classroom (handouts) by Mather, 1998. Reprinted with permission.
## Story Questions

1. Where does your story take place?

   

   

   

2. Who are the main characters and what are they like?

   

   

   

3. What happens to them?

   

   

   

4. What do they do about it?

   

   

   

5. What happens at the end of the story?

   

   

   

# Story Structure

## My Story Map

<table>
<thead>
<tr>
<th>Name: __________________________</th>
<th>Date: __________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Setting:</td>
<td>Time:</td>
</tr>
<tr>
<td>Characters:</td>
<td></td>
</tr>
<tr>
<td>The Problem:</td>
<td></td>
</tr>
<tr>
<td>The Goal:</td>
<td></td>
</tr>
<tr>
<td>Action:</td>
<td></td>
</tr>
<tr>
<td>The Outcome:</td>
<td></td>
</tr>
</tbody>
</table>

1. Where did this story take place?
2. When did this story take place?
3. Who were the main characters in the story?
4. Were there any other important characters in the story? Who?
5. What was the problem in the story?
6. How did ________ try to solve the problem?
7. Was it hard to solve the problem? Explain.
8. Was the problem solved? Explain.
9. What did you learn from reading this story? Explain.
10. Can you think of a different ending?

Strategies and Resources for Assessing and Teaching Phonemic Awareness

B1 Hierarchy of Phonemic Awareness Skills

B2 Assessment for Phonemic Awareness Skills

B3 Recommendations for Teaching Phonemic Awareness Skills

B4 Phonemic Awareness Activities to Get You Started

B5 Resources for Teaching Phonemic Awareness Skills
B1 Hierarchy of Phonemic Awareness Skills:

In order to provide appropriate intervention, it is important to understand the hierarchy of skills involved in phonemic awareness. Skills must be taught beginning with simple skills and moving toward more complex skills.

Skills are listed from simple to complex

1. **Rhyme Recognition**
   The ability to identify if a pair of words rhyme. For example, do pat and fat rhyme? (yes) Do fox and fairy rhyme? (no).

2. **Rhyme Production**
   The ability to produce a rhyming word. For example, tell me a word that rhymes with “kiss”, “cat”, “dog”.

3. **Alliteration Identification**
   The ability to identify the common sound in different words. For example, tell me the sound that is the same in baby, bark, and big (/b/).

4. **Alliteration Discrimination**
   The ability to identify the word that has the odd sound. For example, tell me which word does not belong in bake, bug, and rat (rat).

5. **Sentence Segmentation**
   The ability to identify individual words in a sentence. For example, clap for each word you hear in a sentence, “I love you”. The child should clap three times.

6. **Segmenting Compound Words**
   The ability to identify that some big words are made up of two little words. For example, clap one time for each little word you hear in this big word: “mailbox”, “snowman”.

7. **Segmenting Words into Syllables**
   The ability to identify the number of beats or syllables in a word. For example, say a word and have the child clap one beat for each syllable: “cat” (1), “garden” (2), “dinosaur” (3), “dysfunctional” (4).

8. **Blending Syllables**
   The ability to blend parts of words. For example, say “cup–cake” with a slight pause between the two words. Ask the child to identify the whole word–(cupcake). Other examples are “pen–cil” and “hap–py”.

9. **Segmenting Phonemes**

The ability to identify the individual sounds in a word. For example, ask the child to say the word “cat” and place a block on the table for each sound in the word “c – a – t” (3), “f – l – a – g” (4), or “g – o” (2).

10. **Blending Phonemes**

The ability to blend phonemes or individual sounds in a word. Begin with two to three phonemes and progress to four. For example, say “g – o” or “s – oa – p” with a slight pause between each sound and ask the child to identify the word.

11. **Identifying the Initial Sound in a Word**

The ability to identify the first sound heard in a word. For example, ask the child to identify the first sound in the word “time” /t/.

12. **Identifying the Final Sound in a Word**

The ability to identify the last sound heard in a word. For example, ask the child to identify the last sound in the word “time” /m/.

13. **Identifying the Medial Sound in a Word**

The ability to identify the middle sound heard in a word. For example, ask the child to identify the middle sound in the word “time” /i/.

14. **Deleting a Phoneme**

The ability to manipulate the individual sounds of a word. For example, say the word “bat” and say it again without the /b/ (/at/).

15. **Adding a Phoneme**

The ability to add a sound to a group of sounds or to a one syllable word. For example, if you add the /b/ sound to /at/ you say “bat”. Add the /h/ sound to /it/ “hit” or add the /p/ sound to /op/ “pop”.

16. **Substituting the Initial Phoneme in a Word**

The ability to change the first sound in a word. For example, say the word “cat” and then say it again with /b/ for /k/. You then have “bat” instead of “cat”.

17. **Substituting the Final Phoneme in a Word**

The ability to change the last sound in a word. For example, say the word “bit” and then say it again with /d/ for /t/. You then have “bid” instead of “bit”.

18. **Substituting the Medial Vowel Phoneme in a Word**

The ability to change the middle sound in a word. For example, say the word “bad” and then say it again with /u/ for /a/. You then have “bud” instead of “bad”.

B2 Assessment for Phonemic Awareness Skills

Various assessment tools are available to evaluate phonemic awareness skills. Teachers are encouraged to choose the test(s) that best meets the needs of the student.

The following tests are included in the assessment section:

B2.1. Informal Phonological Awareness Test
Assesses a range of phonemic awareness skills (rhyming–discrimination and production), segmenting (compound words and syllables), isolating phonemes (initial, final, medial), blending and segmenting phonemes). Scoring key is provided.

B2.2. Rosner Test of Auditory Analysis
Assesses one’s ability to delete a syllable and/or a phoneme in a word. Scoring key is provided.

B2.3. Phonemic Awareness: Sample Diagnostic Assessment Form
Assesses awareness of rhyme and alliteration as well as the ability to blend and segment words. Scoring key is not provided.

B2.4. Dynamic Indicators of Basic Early Literacy Skills (DIBELS)
Materials and scoring procedures in the following areas are available online at (http://dibels.uoregon.edu/). Schools and school divisions may make unlimited photocopies of these materials for educational use.

- Initial Sounds Fluency
- Letter Naming Fluency
- Phonemic Segmentation Fluency
- Nonsense Word Fluency
- Retell Fluency
- Oral Reading Fluency
B2.1. Informal Phonological Awareness Test

<table>
<thead>
<tr>
<th>Name: ________________________________</th>
<th>Age: _______</th>
<th>Date: _______</th>
</tr>
</thead>
</table>

- SCORING KEY -

0 – 1  Not Mastered  
2 – 3  Emergent  
4 – 5  Mastered

**RHYMING:**

**Discrimination:**

<table>
<thead>
<tr>
<th></th>
<th>NM</th>
<th>E</th>
<th>M</th>
</tr>
</thead>
</table>

**Directions:** “I’m going to say two words and ask you if they rhyme. Listen carefully.”

**Demonstration Item:** “Fan rhymes with man. Do rat and mat rhyme?”

**Additional demonstration items:**  
lag/log  
mitt/fit

1. book/look  (yes)  
2. un/run  (yes)  
3. ring/rat  (no)  
4. box/yes  (no)  
5. fish/dish  (yes)

**Production:**

<table>
<thead>
<tr>
<th></th>
<th>NM</th>
<th>E</th>
<th>M</th>
</tr>
</thead>
</table>

**Directions:** “I’m going to say a word and I want you to tell me a word that rhymes with it. Listen carefully.” (Note: Nonsense words are acceptable.)

**Demonstration item:** “Tell me a word that rhymes with bat.”

**Additional demonstration items:**  
miss  
log

1. cat  
2. pot  
3. tame  
4. wrinkle  
5. brother
### B2.1. Informal Phonological Awareness Test – Continued

#### SEGMENTING COMPOUND WORDS:  

**Directions:** “I’m going to say some big words made up of two little words. I want you to clap one time for each little word. Listen carefully.”

**Demonstration item:** “mousetrap” (model clapping)

**Additional demonstration items:**
- birdhouse
- football
- cupcake
- mailbox
- horseshoe
- snowman
- bedtime

#### SEGMENTING SYLLABLES:  

**Directions:** “I’m going to say a word and I want you to clap one time for each beat or syllable. Listen carefully.”

**Demonstration item:** “bicycle” (model clapping)

**Additional demonstration items:**
- cat
- summer
- house
- garden
- pocket
- fantastic
- dinosaur

#### ISOLATING PHONEMES:

**Initial Position:**

**Directions:** “I’m going to say a word and ask you to tell me the beginning or first sound of the word. Listen carefully.”

**Demonstration item:** Say “cat”. Then ask, “What’s the beginning sound of cat?”
B2.1. Informal Phonological Awareness Test – Continued

**Additional demonstration items:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>dog</td>
<td></td>
</tr>
<tr>
<td>mouse</td>
<td></td>
</tr>
<tr>
<td>1. bite</td>
<td>(b)</td>
</tr>
<tr>
<td>2. toy</td>
<td>(t)</td>
</tr>
<tr>
<td>3. purple</td>
<td>(p)</td>
</tr>
<tr>
<td>4. dinosaur</td>
<td>(d)</td>
</tr>
<tr>
<td>5. fudge</td>
<td>(f)</td>
</tr>
</tbody>
</table>

**Final Position:**

<table>
<thead>
<tr>
<th></th>
<th>NM</th>
<th>E</th>
<th>M</th>
</tr>
</thead>
</table>

**Directions:** “I’m going to say a word and ask you to tell me the ending or last sound of the word. Listen carefully.”

**Demonstration item:** Say “cat”. Then ask, “What’s the ending sound of cat?”

**Additional demonstration items:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>duck</td>
<td></td>
</tr>
<tr>
<td>fish</td>
<td></td>
</tr>
<tr>
<td>1. bug</td>
<td>/g/</td>
</tr>
<tr>
<td>2. house</td>
<td>/s/</td>
</tr>
<tr>
<td>3. rat</td>
<td>/t/</td>
</tr>
<tr>
<td>4. bush</td>
<td>/sh/</td>
</tr>
<tr>
<td>5. math</td>
<td>/th/</td>
</tr>
</tbody>
</table>

**Medial Position:**

<table>
<thead>
<tr>
<th></th>
<th>NM</th>
<th>E</th>
<th>M</th>
</tr>
</thead>
</table>

**Directions:** “I’m going to say a word and ask you to tell me the middle sound of the word. Listen carefully.”

**Demonstration item:** Say “cat”. Then ask, “What’s the middle sound of “cat”?”

**Additional demonstration items:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>feet</td>
<td></td>
</tr>
<tr>
<td>game</td>
<td></td>
</tr>
<tr>
<td>1. cup</td>
<td>(u)</td>
</tr>
<tr>
<td>2. mouse</td>
<td>(ou)</td>
</tr>
<tr>
<td>3. and</td>
<td>(n)</td>
</tr>
<tr>
<td>4. nip</td>
<td>(i)</td>
</tr>
<tr>
<td>5. boil</td>
<td>(oi)</td>
</tr>
</tbody>
</table>
### B2.1. Informal Phonological Awareness Test – Continued

#### BLENDING PHONEMES: NM E M

**Directions:** “I’ll say the sounds of a word. You guess what word it is. Listen carefully.”

**Demonstration item:** Say these sounds with a very short pause between them “/i/…/t/.
What word did I say?”

**Additional demonstration items:**
- /u/…/p/ (up)
- /p/…/o/…/p/ (pop)

Say each word slowly by phoneme as indicated.

1. b – oy (boy)
2. s – i – t (sit)
3. t – ai – l (tail)
4. f – l – a – g (flag)
5. k – i – n – d (kind)

#### SEGMENTING PHONEMES: NM E M

**Directions:** “I’m going to say a word and I want you to say each sound in the word.
Listen carefully.”

**Demonstration item:** Say “cat”. Then say the individual sounds, pausing slightly between each one. “/c/…/a/…/t/”.

**Additional demonstration items:**
- up
- pig
1. at (a – t)
2. game (g – a – m)
3. keep (k – e – p)
4. mist (m – i – s – t)
5. smoke (s – m – o – k)

From *The Neuropsychology of Reading Disorders: Diagnosis and Intervention Workbook* (pp. 91-94) by S. G. Feifer, & P. De Fina, 2000, Maryland: School Neuropsych Press. Reprinted with permission.
B2.2. Test of Auditory Analysis

**Materials Needed:** List of items to be administered to the child.

**Directions:**

**PRACTICE:**
Let’s play a word game.

Say COWBOY (allow child to respond). Now say it again, but don’t say BOY.

If correct:
That’s right, let’s try the next one.

If incorrect:
That’s not quite right. COWBOY without saying BOY is COW. (Explain it to the child.
If the child requires more than a simple explanation, stop testing.)

**SECOND PRACTICE ITEM:**
Say STEAMBOAT (wait for response). Now say it again, but don’t say STEAM.

If the child answers both demonstration items correctly, start the test with Item 1. If he/she does not answer both demonstration items correctly, do not administer any more items.

**ADMINISTRATION NOTES:**
Do not give hints with your lips. Speak distinctly, but do not stress any particular sounds. In other words, do not give any additional information that might make the task easier. You want the child to do well, but not at the expense of looking better on the test than is really the case.

Remember, when you get to the items that ask the child to “Say the word, but don’t say /k/ (a single sound)” you are to say the sound of the letter, not the letter name.

Stop testing after two successive errors—two incorrect responses in a row—and record the number of the last correct item before those two errors. This is his/her score. For example, if the child is correct on items 1, 2, 3, 4, and 5, and incorrect on items 6 and 7, his/her score would be 5. If he/she was correct on 1, 2, 3, incorrect on 4, correct on 5 and 6, then incorrect on 7 and 8, his/her score would be 6.

**INTERPRETING THE RESULTS:**
The following expected scores were not based on a formal norming procedure, but rather on the author’s experience in administering the task to children of various ages. Although they can be used as an initial guide to expected performance at various age levels, the test will be most accurately used to identify children with delays in phonological awareness if this information is supplemented with local norms.

Expected scores:  
Kindergarten 1-3  
1st Grade 4-9  
2nd Grade 10-13
### B2.2. Test of Auditory Analysis – Continued

<table>
<thead>
<tr>
<th>TEST ITEMS:</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Say SUNSHINE. Now say it again, but don’t say SHINE.</td>
<td>SUN ___________</td>
</tr>
<tr>
<td>2. Say PICNIC. Now say it again, but don’t say PIC.</td>
<td>NIC ___________</td>
</tr>
<tr>
<td>3. Say CUCUMBER. Now say it again, but don’t say CU (q).</td>
<td>CUMBER ___________</td>
</tr>
<tr>
<td>4. Say COAT. Now say it again, but don’t say /k/.</td>
<td>OAT ___________</td>
</tr>
<tr>
<td>5. Say MEAT. Now say it again, but don’t say /m/.</td>
<td>EAT ___________</td>
</tr>
<tr>
<td>6. Say TAKE. Now say it again, but don’t say /t/.</td>
<td>ACHE ___________</td>
</tr>
<tr>
<td>7. Say GAME. Now say it again, but don’t say /m/.</td>
<td>GAY ___________</td>
</tr>
<tr>
<td>8. Say WROTE. Now say it again, but don’t say /t/.</td>
<td>ROW ___________</td>
</tr>
<tr>
<td>9. Say PLEASE. Now say it again, but don’t say /z/.</td>
<td>PLEA ___________</td>
</tr>
<tr>
<td>10. Say CLAP. Now say it again, but don’t say /k/.</td>
<td>LAP ___________</td>
</tr>
<tr>
<td>11. Say PLAY. Now say it again, but don’t say /p/.</td>
<td>LAY ___________</td>
</tr>
<tr>
<td>12. Say STALE. Now say it again, but don’t say /t/.</td>
<td>SALE ___________</td>
</tr>
<tr>
<td>13. Say SMACK. Now say it again, but don’t say /m/.</td>
<td>SACK ___________</td>
</tr>
</tbody>
</table>

Last item before two errors in a row ___________

B2.3. Phonemic Awareness: Sample Diagnostic Assessment Form

**Directions:** Give the child an example of each task before proceeding with a new category. You may need to give two examples with some children. Accept all responses. Do not proceed to the next category if a child cannot answer any of the items correctly in the category that preceded it. Place a check in the corresponding column for each item the child answers correctly.

**Child’s Name:** ____________________________________________

<table>
<thead>
<tr>
<th>Awareness of Rhyme</th>
<th>Date</th>
<th>Date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Say “yes” if these two words rhyme. Say “no” if they don’t.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. cat fat</td>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. bike hike</td>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. go door</td>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. come run</td>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. candle handle</td>
<td>5.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. man moon</td>
<td>6.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Tell me a word that rhymes with …)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. hat</td>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. cake</td>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. pet</td>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. jump</td>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. kitten</td>
<td>5.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Awareness of Alliteration</th>
<th>Date</th>
<th>Date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Say “yes” if these words start with the same sound. Say “no” if they don’t.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. big balloon</td>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. come colour</td>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. funny morning</td>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(I’ll say a word and you tell me one that starts with the same sound.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. dog</td>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. silly</td>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. huge</td>
<td>3.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ability to Blend and Segment Words</th>
<th>Date</th>
<th>Date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I’m going to say some words in a special way by stretching out the sounds. Put the sounds together and tell me what word they make.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. p...i...n</td>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. j...o...b</td>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. s...a...t</td>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. sh...oe</td>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. th...a...t</td>
<td>5.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(I’ll say a word and you tell me the sounds you hear in it. You stretch the word into its sounds.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. keep</td>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. red</td>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. bump</td>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. snow</td>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. frost</td>
<td>5.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From *Early Literacy: A Resource for Teachers* (p.77) by Saskatchewan Learning, 2000, Regina, SK: Author.
B3  Recommendations for Teaching Phonemic Awareness Skills

The following suggestions are provided to assist teachers when teaching phonemic awareness skills.

- It is critical to identify children early who are at risk for reading difficulties so that preventative work can begin as soon as possible.

- Some students will need instruction at the emergent levels (rhyming, segmenting, and blending) to the more complex levels (substituting and deleting sounds). Create “mini” lessons to meet the needs of students in your class.

- Segmentation or blending tasks are easier with continuant phonemes (e.g., /s/, /sh/, /l/) than with noncontinuant-stop phonemes (e.g., /p/, /b/, /t/).

- Phonemic awareness activities have a greater impact on reading success when combined with instruction in letter-sound correspondence.

- Not all students will acquire skills at the same rate. Intervention for a certain skill needs to be as long as necessary to support a student’s acquisition of the skill.

- When multiple tasks in phonemic awareness are the objective, teach one or two until each is mastered before moving to the next.

- Teach phonemic awareness in a small group setting.

- Teach students an average of 15 to 20 minutes per day.

- Some struggling readers will need to have intensified intervention in phonemic awareness if they have not developed this ability.

- The relationship between learning about phonemes and developing decoding skills is reciprocal.

- When teaching individual phonemes, orally model the sound and draw attention to how the sound is produced in the mouth. For example, ask the child how did the sound feel? Did your vocal chords vibrate? Did air come out of your mouth? What did your tongue and lips do?

- When students segment sounds in words, they can represent the sounds with something concrete (blocks), visual cues (holding up fingers), kinesthetic cues (jumping), or auditory cues (clapping). Using a multi-sensory approach improves children’s ability to segment.

- Phonemic awareness skills can be taught and enhanced through natural language development. Create spontaneous games and activities by using, songs, nursery rhymes, poems, and stories.

- Ericson and Juliebo (1998) reported that kindergarten children instructed in both segmenting and blending skills performed significantly better on all tests of sound association and word recognition than children taught in phoneme analysis (segmenting) alone.

Adapted from National Institute of Child Health and Human Development (2000); Reithaug (2002).
B4 Phonemic Awareness Activities to Get You Started

Many phonemic awareness programs and activities are available on the market. The following suggestions are provided as examples of ways to develop each skill area.

Isolating and Categorizing Phonemes:

☐ Use the analogy of a train
   Draw three connecting boxes: an engine, a passenger car, and a caboose. Explain that a word has beginning, middle, and ending sounds, just like a train. Slowly articulate a consonant-vowel consonant word (e.g., /p/.../i/.../g/) and point to the box corresponding to the position of each sound in the word. Repeat the word and have students identify where they hear the different sounds (e.g., Where do you hear the /g/ in pig?).


☐ Listening for Phonemes in Mixed Word Positions – A Song Game Script:

I am going to sing you a song and your job will be to listen to the words that I say and do the action that I ask you to do. Only do the action if the word that I say has the sound I am looking for. The students will need lots of room to move around for this activity. Sing the lines below to the first verse of “Lou Lou Skip To My Lou”. At the end of the verse say the target word slowly. Once the students become familiar with this verse, they can sing along with you. One complete example is provided below:

Clap if you hear an /i/ in this word,
Clap if you hear an /i/ in this word,
Clap if you hear an /i/ in this word,
Clap if you hear the /i/ sound! – trick.

1. Skip if you hear a /p/ in this word – drop.
2. Whistle if you hear a /j/ in this word – grow.
3. Dance if you hear an /a/ in this word – class.
4. Spin if you hear a /z/ in this word – easy.
5. Bend if you hear a /m/ in this word – turn.
6. Jump if you hear an /o/ in this word – octopus.
7. Twirl if you hear a /g/ in this word – brag.
8. Hop if you hear a /l/ in this word – ball.
9. Laugh if you hear an /u/ in this word – lucky.
10. Cry if you hear a /s/ in this word – zero.
11. Sing if you hear a /v/ in this word – curve.
12. Chirp if you hear an /e/ in this word – spend.
13. Growl if you hear /w/ in this word – winter.
14. Bark if you hear a /sh/ in this word – plus.
15. Snore if you hear an /a/ in this word – plate.
16. Turn if you hear a /th/ in this word – jar.
17. Howl if you hear a /ch/ in this word – jar.
18. Sit if you hear an /i/ in this word – kite.
19. Stand if you hear a /k/ in this word – camera.
20. Shiver if you hear a /d/ in this word – bread.
21. Meow if you hear an /o/ in this word – job.
22. Moo if you hear a /f/ in this word – stuff.
23. Oink if you hear a /h/ in this word – happy.
24. Snort if you hear a /v/ in this word – wind.
25. Run if you hear an /e/ in this word – sneeze.


**Activities for Segmenting:**

- **Hello Song**
  Sing a “Hello Song” to the children in the class and say each child’s name. As you sing, emphasize each syllable in a word. For example, “Hello, Max”, “Hello, Jessie”, “Hello, Benjamen”. The children can clap along as they sing the song with the teacher. This is a good way for children in kindergarten to learn the names of their classmates and segment syllables in words.

- **Tangible Items**
  Give students tangible items such as coloured felts, poker chips, popsicle sticks, buttons, or tiles to represent syllables in a word. The teacher says a word and the children move the tangible item forward on their desk to represent the number of beats or syllables they hear in a word.

- **Use a Tapping Wand**
  Have a student practise tapping the syllables with special tapping wands. Start by using compound words and gradually introduce two, three, and four syllable words. Use the phrase: How many sounds can you tap in the word ________?

<table>
<thead>
<tr>
<th>1 Syllable Words</th>
<th>2 Syllable Words</th>
</tr>
</thead>
<tbody>
<tr>
<td>hat</td>
<td>baby</td>
</tr>
<tr>
<td>dog</td>
<td>jolly</td>
</tr>
<tr>
<td>run</td>
<td>apple</td>
</tr>
<tr>
<td>chair</td>
<td>falling</td>
</tr>
<tr>
<td>phone</td>
<td>surprise</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3 Syllable Words</th>
<th>4 Syllable Words</th>
</tr>
</thead>
<tbody>
<tr>
<td>dinosaur</td>
<td>watermelon</td>
</tr>
<tr>
<td>kangaroo</td>
<td>kindergarten</td>
</tr>
<tr>
<td>elephant</td>
<td>alligator</td>
</tr>
<tr>
<td>crocodile</td>
<td>calculator</td>
</tr>
<tr>
<td>computer</td>
<td>information</td>
</tr>
</tbody>
</table>
Activities for Blending Sounds

■ Use Puppet Play

Use a puppet who speaks funny by saying words syllable-by-syllable or sound-by-sound. Students guess the word.

Say: “The puppet likes to say words in pieces. Can you help him put the word together?”

From Orchestrating Success in Reading (p.152) by D. Reithaug (2002). West Vancouver, BC: Stirling Head Enterprises. Reprinted with permission.

Activity for Manipulating Sounds

■ A Word Changing Game

Script:
We’re going to pretend that our names and other words have different sounds at the beginning. Megan, if your name started with /r/ instead of /m/, what would it be? Right—your name would be Regan. Now let’s change some other people’s names.

Provide the students with a phoneme substitution for the first sound in their first name. If their name starts with a vowel, give them a vowel substitution. If it starts with a single consonant, give them a single consonant substitution. If starts with a blend, give them a consonant substitution for the first sound only (e.g., Brittany should be changed to Grittany or Frittany). Do not expect the students to change the entire blend with a different blend.

After the students each complete a phoneme substitution for their own name, ask them to make a phoneme substitution for a classmate’s name. Once this round is completed, provide them each with an initial phoneme substitution for their last name. You may also provide initial phoneme substitutions for parents’ names, pets’ names, brothers’ and sisters’ names, the principal’s name, etc.

Now we’re going to pretend that some other things have different sounds at the beginning. Let’s see what these things would be called if we changed their beginning sound. (Have the class complete the first several items in unison; then ask individual students to substitute the initial phonemes for the remaining words.)

1. If giraffe started with /z/ instead of /j/, what would it be called?
2. If banana started with /g/ instead of /b/, what would it be called?
3. If drum started with /p/ instead of /d/, what would it be called?
4. If cantaloupe started with /s/ instead of /k/, what would it be called?
5. If ox started with /i/ instead of /o/, what would it be called?
6. If watermelon started with /l/ instead of /w/, what would it be called?
7. If raisin started with /ch/ instead of /r/, what would it be called?
8. If garage started with /f/ instead of /g/, what would it be called?

To support students’ achievement, it is important that teachers familiarize themselves with the respective curricula for the areas of study they teach. Early Literacy: A Resource for Teachers and the English language arts curricula developed by Saskatchewan Learning provide learning objectives, instructional and assessment strategies, and activities.

In addition, the following resources may be helpful in supporting student development related to phonemic awareness.

### B5.1. Programs to Supplement Regular Classroom Instruction

The following resource was used to help develop the list of programs: *A Basic Guide to Understanding, Assessing, and Teaching Phonological Awareness*, by J. Torgesen, J. and P. Mathes, 2000, Austin, TX: PRO-ED.

- **Ladders to Literacy** (O’Connor, Notari-Syverson, & Vadasy, 1998)
  - Instructional Level: Kindergarten
  - Instructional Tasks:
    - Perception and Memory for Sounds and Words
    - Word Awareness
    - Rhyming
    - Alliteration
    - Blending
    - Segmentation
  - General Comments:
    - Integrates print knowledge with phonemic awareness.
    - Includes a checklist of emergent literacy skills.
    - Includes methods for teaching children who learn at different rates.
    - Materials for activities are not included but could be easily found in classrooms.
  - Ordering Information:
    - Brookes Publishing Company (1-800-638-3775)

  - Instructional Level: Elementary school aged children
  - Instructional Tasks:
    - Letters are visual representations of sounds
    - Rhyming
    - Blending
    - Segmenting
    - Phonics (Basic and Advanced)
    - Multi-syllable word analysis
General Comments:
- Includes picture card materials
- Includes screening tests (blending, segmentation, phonics)

Ordering Information:
Simon & Schuster Publishing Company (1-800-374-1200)

 Phonemic Awareness in Young Children
(Adams, Foorman, Lundberb, & Beeler, 1997)

Instructional Level: Kindergarten to Grade One

Instructional Tasks:
- Listening Games
- Rhyming Activities
- Blending
- Segmenting
- Initial/Final Phonemes
- Substitution
- Phonics

General Comments:
- Sequence of game-like activities.
- Includes most materials (others needed can be easily found in classroom).
- Includes phonological awareness tests to monitor progress.
- Includes a list of rhyming and alliteration books.

Ordering Information:
Brookes Publishing Company (1-800-638-3775)

 Sounds Abound Program: Teaching Phonological Awareness in the Classroom (Lenchner & Podhajski, 1997)

Instructional Level: Kindergarten to Grade One

Instructional Tasks:
- Rhyming
- Blending
- Segmenting
- Deletion
- Substitution
- Matching letters to first sounds in words

General Comments:
- Materials are included with program.
- The majority of activities involve singing or music.
- Comes with videotape that demonstrates many of the activities.

Ordering Information:
LinguiSystems (1-800-776-4332)
Sounds Abound Instructional Materials and Game (Catts & Vartiainen, 1993)

Instructional Level: Kindergarten and Grade One

Instructional Tasks:
• Rhyming
• Beginning and Ending Phonemes
• Segmenting
• Blending
• Substitution
• Deletion
• Matching letters and sounds (seven consonants and five vowels)

General Comments:
• Materials included.
• The game is purchased separately from the materials.
• Includes phonemic awareness tests to assess growth.

Ordering Information:
LinguiSystems (1-800-776-4332)

Orchestrating Success in Reading (Reithaug, 2002)

Instructional Level: School aged children.

Instructional Tasks:
• All levels of phonemic awareness
• Phonics
• Vocabulary Development
• Reading Fluency
• Reading Comprehension Strategies

General Comments:
• A wide variety of interventions and activities.
• Many reproducible pages for classroom use.

Ordering Information:
Stirling Head Enterprises (1-604-926-4714)
E-mail dreithaug@shaw.ca

Animated Literacy (Stone, 2002)

Instructional Level: Kindergarten to Grade Three

Instructional Tasks:
• Comprehensive list of phonemic awareness skills
• Phonics
• Reading
General Comments:
• Utilizes a multi-sensory approach incorporating music, art, and movement to teach phonemic awareness, phonics, word knowledge, fluency, and comprehension.
• Program includes handbooks; tapes; CDs; song and action books; pattern books of reading, writing, and singing activities; alphabet card flash cards for sound and letter substitution activities; and manipulatives.

Ordering Information:
E-mail jstoneal@yahoo.com

- Sourcebook of Phonological Awareness Activities Volume II
  Children’s Core Literature (Goldsworthy, 2001)

Instructional Level: Preschool through Grade Three

Instructional Tasks:
• All levels of phonemic awareness skills

General Comments:

Ordering Information:
Singular Publishing Group (1-800-521-8545)

B5.2. Programs for Small Group or Individualized Training

- Launch into Reading Success Through Phonological Awareness Training
  (Bennett & Ottley, 1996)

Instructional Level: Kindergarten children who are at-risk for reading failure.

Instructional Tasks:
• Syllabification
• Rhyming
• Onset and Rime
• Segmenting
• Blending
• Substitution
• Pronunciation for voiced and unvoiced consonant pairs (multisensory)
• Matching letters to phonemes

General Comments:
• Moves through sequences in small steps.
• Strong emphasis on how sounds are represented in print.
• Includes laminated game boards.
• Highly scripted; can be led by educational assistants or volunteers and supervised by teacher.
• Limitation is that students are taught to segment prior to comparing words based on initial and final phonemes.
Ordering Information:
PRO-ED Publishing Company (1-800-897-3202)

- The Lindamood Phoneme Sequencing Program for Reading, Spelling, and Speech (LIPS) (Lindamood, & Lindamood, 1998)
  Instructional Level: Children at-risk for reading failure.
  Instructional Tasks:
  - Auditory Discrimination
  - Phoneme Articulation
  - Blending
  - Segmenting
  - Syllabification
  - Deletion
  - Substitution
  - Phonics
  - Reading and spelling multi-syllable words
  General Comments:
  - This program was formerly known as Auditory Discrimination in Depth (ADD).
  - Program for children who are severely at risk for learning phonemic awareness and phonics skills.
  - Designed to access the oral-motor, visual, and auditory feedback systems in order to assist students in developing and integrating phonemic awareness skills.
  - Speech sounds have been categorized on the basis of the shape as well as the position of the lips, teeth, and tongue.
  - Complex program that requires at least 40 hours of training in order to use it.
  - Typical length of treatment ranges between 80 and 160 hours.

Ordering Information:
- PRO-ED Publishing Company (1-800-897-3202)
- Lindamood Learning (1-800-234-6224)

- Phonological Awareness Training for Reading (Torgesen & Bryant, 1993)
  Instructional Level: Young children who are mildly to moderately at risk for reading failure.
  Instructional Tasks:
  - Onset/rime blending
  - Phoneme blending
  - Segmentation of initial phoneme
  - Matching words on basis of first, last, and middle sounds
  - Identifying the positions of phonemes within word
  - Substitutions
  - Letter-sound correspondences
  - Phonics
General Comments:
• All materials are included in kit.
• Highly scripted text.
• Strong transition into using letters to represent sounds.
• No special training required.

Ordering Information:
• PRO-ED Publishing Company (1-800-897-3202)

Road to the Code: A Phonological Awareness Program for Young Children
(Blachman, Ball, Black, & Tangel, 1999)

Instructional Level: Kindergarten and Grade One children who are at risk for reading failure.

Instructional Tasks:
• Rhyming
• Blending
• Segmenting
• Phonics

General Comments:
• Transition between oral language phonemic awareness activities and the use of letters to read and spell words.
• With some modification, activities could be adapted to use with older students who are struggling with phonics.

Ordering Information:
• Brookes Publishing Company (1-800-638-3775)
APPENDIX C

Phonics

C1 An Instructional Sequence for Phonemic Awareness and Graphophonics

C2 Assessment for Phonics Skills

C3 Recommendations for Teaching Phonics Skills

C4 Phonics Activities to Get You Started

C5 Resources for Teaching Phonics Skills
C1 Suggested Instructional Sequence for Phonemic Awareness and Graphophonics

Aural/Oral and Visual Discrimination Abilities

Pre-K
Focus on Environmental Sounds
Example: Sound Walks

K
Focus on Shapes and Patterns in Environment

Sound/Listening Games
Example: What’s My Pattern?

Visual Discrimination Activities
Examples: Name recognition activities, concept of letter/word activities

Games
Examples: Memory, Lotto (versions for young children)

Phonemic Awareness
Language Play Activities
Rhyming
Alliteration
Songs, chants, etc.

Segmenting and Blending Activities
Count the words
Clap the syllables
Segmenting compound words
Segmenting and blending syllables
Segmenting and blending phonemes

Phoneme Awareness

1

Letter Recognition
Letter Discrimination/Forming Activities
Examples: Guess my Letter, ABC Centre

Graphophonic Activities

2

Initial Consonant Deletion
Examples: Say jeep. Say it again without the j.
Say jeep. Say it again without the p.

Structural Analysis

s Ending

* (b, f, h, j, d, l, m, p, r, t, n, v, w, y, z)

es, ing, er, ed, est Endings

Initial Consonants related to Multiple Sounds (s, c, g, q, x)
Y as a vowel
Final Consonants
Word Families (onsets and rimes)

Short Vowels
Consonant Blends
Consonant Digraphs
Medial Consonants (the t sound in kitten)
Long Vowels
r Controlled Vowels (ar, er, ir, or, ur)
Vowel Diagraphs (oo, ow, au, aw, oi, oy, ou, ow)
Other Vowel Patterns (all, ough, augh)

* Experienced teachers suggest that b, d, and p, and m and n should not be taught together.

From Early Literacy: A Resource for Teachers (p.75) by Saskatchewan Learning, 2000, Regina, SK: Author.
C2 Assessment of Phonics Skills

The first step in phonics instruction is the identification and naming of the alphabet. Students then need to connect the letters with particular sounds. The following assessment tool can be used to quickly identify whether students have an understanding of the alphabetic principle and if they are able to print the letters.

When administering the letter identification, naming, and sound/symbol relationship portion of the test, give the student a copy of the alphabet, which is provided. When the child is required to print individual letters, remove the copy of the alphabet. You can begin with either the upper or lower case letters. Position yourself so that the child is unable to view you scoring him or her.

Please refer to the Early Literacy: A Resource for Teachers and the English Language Arts Curriculum Guide for the Elementary Level (K-5) for assessment tools, teaching guidelines, and strategies. Both documents are available online at http://www.sasked.gov.sk.ca/docs.
### C2.1. Letter: Identification/Naming/Sound/Formation

**Uppercase**

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<tr>
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**Total**

**Letter Identification:** Ask the student to point to the letter you name.

**Letter Naming:** Ask the student to tell you the names of the letters you point to.

**Letter Formation:** Ask the student to print the letter you name.

**Letter Sound:** Ask the student to tell you the sound of the letter you name.

Adapted from Mather & Goldstein (2001) and Saskatchewan Learning (2000c).
## C2.1. Letter: Identification/Naming/Sound/Formation

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**Letter Identification:** Ask the student to point to the letter you name.

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**Letter Sound:** Ask the student to tell you the sound of the letter you name.

Adapted from Mather & Goldstein (2001) and Saskatchewan Learning (2000c).
C2.2. Phonics Rules and Common Spelling Patterns

Name: ___________________________ Date: _______________ Grade: ________

Phonics Rules and Common Spelling Patterns
Check the student’s knowledge of the spelling pattern presented both alone and then in a pseudo-word. After the consonant digraph section, only single consonant sounds are used in the pseudo-word lists in order to simplify the decoding process.

Consonant Digraphs:
1. sh_____ shim_____(as in “him”)
2. th_____ thap_____(as in “rap”)
3. wh_____ wheg_____ (as in “beg”)
4. ch_____ chot_____(as in “hot”)
5. ng_____ bung_____ (as in “sung”)

Vowel Digraphs:
6. ee_____ leem_____(as in “seem”)
7. ea_____ beal_____(as in “deal”)
8. oa_____ soat____ (as in “boat”)
9. ai_____ fait____ (as in “wait”)
10. oo_____ jook_____ (correct if produced as “book” or as “room”)

R-Controlled Vowels:
11. ar_____ zark_____ (as in “dark”)
12. er_____ ner_____ (as in “her”)
13. ir_____ mird_____ (as in “bird”)
14. or_____ sorn____ (as in “horn”)
15. ur_____ lurt_____ (as in “hurt”)

Appendix C 133
### C2.2. Phonics Rules and Common Spelling Patterns – Continued

#### Vowel Diphthongs:

16. ou____ boun____ (as in “bound”)
17. oi____ doil____ (as in “soil”)
18. ow____ fow_____ (correct if produced as “cow” or as “grow”)
19. oy____ goy_____ (as in “boy”)

#### Long Vowel Silent “e”:

tafe____ (as in “safe”)
depe_____ (as in “deep”)
vide_____ (as in “wide”)
rome_____ (as in “home”)
sune_____ (as in “tune”)

#### Other Long Vowel Patterns:

25. ay____ vay_____ (as in “way”)
26. y_____ ny_____ (as in “my”)
27. ie____ jie_____ (as in “pie”)
28. igh_____ figh_____ (as in “high”)
29. ight_____ dight_____ (as in “night”)
30. aight_____ baight_____ (as in “straight”)

#### Two-Syllable Patterns:

31. –tion_____ botion_____ (as in “lotion”)
32. –sion_____ tansion_____ (as in “mansion”)
33. –gion_____ fegion_____ (as in “legion”)
34. –tious_____ mectious_____ (as in “infectious”)
35. –cious_____ ficious_____ (as in “delicious”)

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134 Appendix C
**C2.2. Phonics Rules and Common Spelling Patterns – Continued**

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| 36. | –cial______  
   | kecial_____ (as in “special”) |
| 37. | –ive______  
   | gotive______ (as in “motive”) |
| 38. | –le______  
   | dable_____ (as in “table”) |

**Other Patterns:**

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</table>
| 39. | –ck______  
   | leck_____ (as in “neck”) |
| 40. | –aw______  
   | baw_____ (as in “saw”) |
| 41. | –ew______  
   | lew_____ (as in “grew”) |
| 42. | –ough_____  
   | mough_____ (correct if produced as “rough” or as “though”) |
| 43. | –nce______  
   | sence_____ (as in “sentence”) |
| 44. | –ought______  
   | lought_____ (as in “fought”) |
| 45. | –aught______  
   | waught_____ (as in “taught”) |

**Consonant Doubling Rule:**

For these words, note if the student recognizes that when single consonants follow a vowel in a two-syllable word, the vowel is produced as a long vowel sound. Consonant doubling requires that the word be decoded with a short vowel sound.

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<td>46.</td>
<td>taby_____ (as in “baby”)</td>
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<td>47.</td>
<td>tabby_____ (as in “crabby”)</td>
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<tr>
<td>48.</td>
<td>razy_____ (as in “crazy”)</td>
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<td>49.</td>
<td>razzy_____ (as in “snazzy”)</td>
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<td>50.</td>
<td>piny_____ (as in “tiny”)</td>
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<td>51.</td>
<td>pinny_____ (as in “skinny”)</td>
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<td>52.</td>
<td>loping_____ (as in “hoping”)</td>
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<td>hable_____ (as in “table”)</td>
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<td>55.</td>
<td>habble_____ (as in “babble”)</td>
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<td>56.</td>
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<tr>
<td>57.</td>
<td>jitting_____ (as in “hitting”)</td>
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<tr>
<td>58.</td>
<td>sater_____ (as in “later”)</td>
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<tr>
<td>59.</td>
<td>satter_____ (as in “matter”)</td>
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C3 Recommendations for Teaching Phonics Skills

The following suggestions are provided to assist teachers when teaching phonemic skills.

- Because phonemic awareness skills are prerequisites for phonics instruction, be sure to assess students’ understanding in this area prior to beginning phonics instruction.

- To determine where to begin instruction in phonics, assess students’ knowledge base.

- Teach sound-symbol links directly, systematically, explicitly, and sequentially.

- Some students will require more intervention than others. Be prepared to individualize a student’s program, as not all students will acquire skills at the same rate.

- Memorizing phonics rules does not ensure students know how to apply the rules. Model and practise the skills in a variety of ways.

- Children are better able to remember the letter-sound relations if mnemonics are used. For example, draw the letters to assume the shape of a familiar object such as a snake for the letter “s” or a house for the letter “h”.

- Incorporate interesting characters or hand motions into activities and games to teach letter-sound relations. Children are more motivated to learn the grapheme-phoneme relationship if it is presented in a fun and exciting manner.

- Emphasize active, vocal responses from students.

- Promote the integration of skills into context. Generalization of the rules and skills will assist students in implementing them independently.

- Begin teaching phonics to children before the end of grade one.

- Teach phonics using onsets and rimes.

  \textit{Onset refers to all the letters in a word before the vowel (e.g., “b” in “bat” or “bl” in “black”).}

  \textit{Rime refers to the vowel and letters that follow after the consonant or consonant blend (e.g., “at” in “bat” or “ack” in “black”).}

Adapted from Moats (1998); National Institute of Child Health and Human Development (2000); Reithaug (2002); Strickland (1998).
C4 Phonics Activities to Get You Started

Morning Message

Have the morning message written on the board. As you read through it with the students, have them help you fill in the missing letters.

Goo_ orning _ _s an_ irl_.
_ ow are you tod_ _?

_oday is _ay 8, 2003.
I_ is _unny outs_de.

C5 Resources for Teaching Phonics Skills

To support students’ achievement, it is important that teachers familiarize themselves with the respective curricula for the areas of study they teach. Please refer to Early Literacy: A Resource for Teachers and English language arts curricula for details of teaching guidelines and strategies.

The National Institute of Child Health and Human Development (2000) evaluated many resources for their effectiveness. Findings of the meta-analysis concluded that systematic phonics instruction produced gains in reading and spelling not only in Kindergarten and Grade One but also in Grades Two to Six. Reportedly, systematic phonics approaches are significantly more effective than non-phonics approaches in promoting substantial growth in reading.

For a complete review of types of programs and their effectiveness, please refer to the Report of the National Reading Panel: Teaching Children to Read: An Evidence-Based Assessment of the Scientific Research Literature on Reading and Its Implications for Reading Instruction, The National Institute of Child Health and Human Development, 2000. This document is available online at http://www.nichd.nih.gov/publications/nrp/smallbook.htm

C5.1. Other Resources


APPENDIX D

Vocabulary Development

D1 Assessment of Vocabulary

D2 Recommendations for Vocabulary Instruction

D3 Resources for Teaching Vocabulary
VOCABULARY DEVELOPMENT

Oral and written vocabulary development is very important in the process of reading. Word knowledge increases a student’s ability to comprehend what she/he reads. Many students in classrooms today require specific instruction in order to develop their vocabularies. If students are engaged in a wide variety of conversations, their oral vocabulary will increase, which in turn will enhance their written vocabulary. Thus, vocabulary development is directly linked to receptive and expressive language development. This is the first step in enhancing one’s word knowledge. Improvement in listening and speaking skills will ultimately increase vocabulary development.

D1 Assessment of Vocabulary:

Use “quickwriting” to help determine students’ knowledge of particular vocabulary.

• Prior to students reading the required material, ask them to think about certain words from the text and write a definition based on their prior knowledge, associations, and understandings of the word.

• Give them two minutes to explore the meaning of the word by writing whatever thoughts come to mind.

• Ask some of the students to share their quickwrites.

• After the students have shared their knowledge and understandings, lead the students in a pre-reading discussion on what the words mean.
D2 Recommendations for Vocabulary Instruction

The following suggestions are provided to assist teachers when teaching vocabulary skills.

- One of the best ways to increase word knowledge is to read often to students of all ages. Students are never too old to enjoy good literature read to them. For many adults, this is a fond memory of school days. Teachers are encouraged to share literature with students on a daily basis.

- Reading to students gives teachers the opportunity to elaborate on new vocabulary to create a deeper understanding of words.

- Read aloud to students from material above their grade level to help compensate for the gap that occurs between good and poor readers.

- Engage students in oral discussions on a wide variety of topics.

- Create scenarios that allow students to practise using new vocabulary.

- Teach students the meaning of new words through semantic mapping (categorization with other known words).

- Instruction should emphasize the relationships among words.

- Provide practice comparing word meanings, categorizing, and using words actively.

- Encourage students to read a wide range of materials.

- Students need multiple exposures to words in authentic contexts. Repetition is essential.

- Pre-teach vocabulary words prior to reading.

- Teach vocabulary in content areas so students are better equipped to gain meaning in content areas.

- Teach students to highlight new vocabulary.

- Teach students how to use a dictionary as soon as they are able to read guide words.

- Teach students the meanings of prefixes and suffixes.

- Teach students common root words. Latin and Greek roots are often the basis for words in content areas such as science.

Adapted from Alberta Education (1996); Moats (1998); National Institute of Child Health and Human Development (2000); Reithaug (2002).
Making Associations Between Words

Name: ____________________________________ Grade: _____ Date: ______

Topic: ____________________________________

---

Key Vocabulary Word

antonym

synonym

My sentence using the word:

---

☐ *Immediately* read connected text that contains the new words.

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D3 Resources for Teaching Vocabulary

To support students’ achievement, it is important that teachers familiarize themselves with the respective curricula for the areas of study they teach. In addition, the following resources may be helpful in supporting students’ vocabulary development.


APPENDIX E

Reading Fluency

E1 Phonics Skills

E2 High Frequency Words

E3 Recommendations for Teaching Reading Fluency

E4 Reading Fluency Activities to Get You Started
READING FLUENCY

Reading fluency refers to a student’s ability to read words quickly, accurately, and with appropriate phrasing and expression (Beers, 2003; National Institute of Child Health and Human Development, 2000; Reithaug, 2002). Fluent reading skills are based on well-developed phonics skills. Students need to be able to decode words rapidly and accurately. The ability to recognize words without conscious decoding is often referred to as “reading automaticity” (Beers, 2003). Students also need to be able to readily recognize sight words that occur frequently in print. Sight words refer to words that do not follow regular decoding rules (e.g., goes, does, said, how). Fluency depends upon well developed word recognition skills. However, word recognition skills do not guarantee fluency (National Institute of Child Health and Human Development, 2000). Some students will still require further instruction in what is referred to as repeated oral reading practice. This component of a reading fluency instructional program gives students the opportunity to practise reading a passage that is within their independent reading level (student can recognize 95% of the words in the text and comprehend 90% or more without assistance) (Beers, 2003). Repeated oral reading practice allows the student to focus on phrasing and expression.

When a student has limited reading fluency skills, valuable cognitive energy is used for decoding and is therefore not available to construct meaning (Beers, 2003; National Institute of Child Health and Human Development, 2000; Reithaug, 2002). Students who are experiencing difficulty with fluency to read quickly, accurately, and with appropriate expression require instruction in phonics; high frequency word recognition; and repeated oral readings.
E1 Phonics Skills

If students do not automatically recognize, understand, and utilize the basic components of phonics, their ability to read fluently is compromised. An important component of assessment and instruction for reading fluency is to review all the basic phonics skills. This may include:

- naming letters rapidly;
- identifying sounds represented by letters or groups of letters;
- blending sounds into words;
- recognizing syllables and blending them into words;
- identifying inflectional endings (e.g., -s, -ed, -ing), and their effect on roots (e.g., calls, called, calling);
- identifying prefixes (un-, re-, dis-);
- recognizing syllables in multisyllabic words;
- recognizing capital letters and understanding their use; and
- recognizing punctuation and understanding its meaning.

Adapted from Mather & Goldstein (2001); Reithaug (2002).

E2 High Frequency Words

Building students’ sight vocabulary is critical in terms of attempting to increase reading fluency skills. The quicker students are able to identify words that are commonly used in English the more fluent their reading will become. According to Johns and Lenski (2001) there are 13 words that account for approximately 25% of the words in school texts. Fry, Kress, and Fountoukidis (2000) and Pinnell and Fountas (1998) have identified 100 words that account for approximately 50% of words found in textbooks. If students are able to instantly recognize high frequency words they will be able to read a large percentage of all the words they encounter in books, magazines, and newspapers.

Teachers are encouraged to use the following two assessment tools to glean information on a student’s ability to read words that occur frequently in school texts.
### E2.1 High-Frequency Words – Recording Sheet

Name: ____________________________________ Date: ________________  
Grade: ________ School: __________________ Evaluator: ______________

<table>
<thead>
<tr>
<th>Word</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. a</td>
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<tr>
<td>2. and</td>
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<td>3. for</td>
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<td>4. he</td>
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<td>5. in</td>
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<td>6. is</td>
<td></td>
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<td>7. it</td>
<td></td>
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<tr>
<td>8. of</td>
<td></td>
</tr>
<tr>
<td>9. that</td>
<td></td>
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<tr>
<td>10 the</td>
<td></td>
</tr>
<tr>
<td>11. to</td>
<td></td>
</tr>
<tr>
<td>12. was</td>
<td></td>
</tr>
<tr>
<td>13. you</td>
<td></td>
</tr>
</tbody>
</table>

Total Correct:   /13

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### E2.2 100 High-Frequency Words – Recording Sheet

<table>
<thead>
<tr>
<th>Name: ______________________</th>
<th>Date: ________</th>
<th>Grade: ____</th>
<th>Evaluator:________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>about</td>
<td>after</td>
<td>all</td>
</tr>
<tr>
<td>an</td>
<td>and</td>
<td>are</td>
<td>as</td>
</tr>
<tr>
<td>at</td>
<td>be</td>
<td>been</td>
<td>but</td>
</tr>
<tr>
<td>by</td>
<td>call</td>
<td>can</td>
<td>come</td>
</tr>
<tr>
<td>could</td>
<td>day</td>
<td>did</td>
<td>do</td>
</tr>
<tr>
<td>down</td>
<td>each</td>
<td>find</td>
<td>first</td>
</tr>
<tr>
<td>for</td>
<td>from</td>
<td>get</td>
<td>go</td>
</tr>
<tr>
<td>had</td>
<td>has</td>
<td>have</td>
<td>he</td>
</tr>
<tr>
<td>her</td>
<td>him</td>
<td>his</td>
<td>how</td>
</tr>
<tr>
<td>I</td>
<td>if</td>
<td>into</td>
<td>in</td>
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<tr>
<td>is</td>
<td>it</td>
<td>its</td>
<td>just</td>
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<td>like</td>
<td>long</td>
<td>look</td>
<td>made</td>
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<tr>
<td>make</td>
<td>many</td>
<td>more</td>
<td>may</td>
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<tr>
<td>more</td>
<td>my</td>
<td>no</td>
<td>not</td>
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<tr>
<td>now</td>
<td>of</td>
<td>on</td>
<td>one</td>
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<tr>
<td>or</td>
<td>other</td>
<td>out</td>
<td>over</td>
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<tr>
<td>people</td>
<td>said</td>
<td>see</td>
<td>she</td>
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<td>so</td>
<td>some</td>
<td>than</td>
<td>that</td>
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<tr>
<td>the</td>
<td>their</td>
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<td>there</td>
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<tr>
<td>time</td>
<td>to</td>
<td>two</td>
<td>up</td>
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<td>use</td>
<td>very</td>
<td>was</td>
<td>water</td>
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<td>way</td>
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<td>were</td>
<td>what</td>
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<td>when</td>
<td>where</td>
<td>who</td>
<td>will</td>
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<tr>
<td>with</td>
<td>would</td>
<td>you</td>
<td>your</td>
</tr>
</tbody>
</table>

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E2.3. Running Record of Miscues

Sample Running Record of Text Reading

In this sample excerpt from a running record, the teacher noted some of the following miscues:

- Repeats Words: Teacher draws a line along the repeated words and notes R.
- Misreads Words: Teacher writes the correct word with the misread word above it.
- Omits Words: Teacher writes the omitted word and circles it.
- Self-corrects: Teacher writes the word with SC above it.
- Student Asks Word: Teacher writes A above it.
- Teacher Tells Word: Teacher writes the word with T above it.
- Reads Word Correctly: Teacher makes a check mark on paper.
- Students Insert Word: Teacher makes a ^ mark on paper.

Student 1: “Jack knew he would not be able to run.”

| ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ | (correct)

Student 2: “Jack knew he would be able to run.”

| ✅ ✅ ✅ ✅ ✅ | (omission)

Student 3: “Jack knew that he would not be able to run.”

| ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ | (insertion)

Student 4: “Jack thought he would not be able to run.”

| ✅ thought ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ | (substitution)

| knew ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ |

Student 5: “Jack knew he would ...he would ...not be able to...to...to... run.”

| ✅ ✅ ✅ ✅ ✅ R ✅ ✅ ✅ R R | (repetition)

Student 6: “Jack k...now...knew he would not be able to run.”

| ✅ k/how ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ | (attempted)

| knew ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ |

Student 7: “Jack knew he will...would not be able to run.”

| ✅ ✅ ✅ sc ✅ ✅ ✅ ✅ ✅ ✅ | (self-correction)

| would ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ |

Student 8: “Jack knew he [pause, teacher pronounces “would”] not be able to run.”

| ✅ ✅ ✅ T ✅ ✅ ✅ ✅ ✅ | (teacher pronounced)

| would ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ ✅ |

Note: Teachers could also write the type of error or error word on a grid such as the one on the following page.

### Sample Miscue Summary/Analysis

<table>
<thead>
<tr>
<th>Text wording</th>
<th>Reader's wording</th>
<th>Type of miscue (substitution, omission, insertion, reversal, repetition)</th>
<th>Uses cues? (semantic, syntactic, graphophonic)</th>
<th>Self-correction? Yes/No</th>
<th>Meaning retained? Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Analysis of Miscues

1. Do the miscues retain meaning (semantics)?
2. Are the miscues syntactically correct?
3. Does the child use beginning, middle, and/or ending sounds (graphophonic)?

### Reading Strategies used by the Student

1. Chunking (little words in big words)
2. Asks for help
3. Goes back to find word somewhere else
4. Thinks of another word that is similar
5. Sounds out words
6. Skips word/reads on/rereads sentence
7. Goes back to the beginning of the sentence
8. Other: _______________________

### Reading Fluency

1. Word by word reading
2. Too slow or too fast
3. No expression
4. Not aware of punctuation
5. Poor sight word recognition
6. Reads in phrases
7. Appropriate pacing
8. Appropriate expression
9. Aware of punctuation
10. Automatic sight word recognition

### Reading Accuracy Rate

\[
\text{words read correctly} = \frac{\text{total number of words}}{} = \% \quad (\text{Independent/ Instructional/Frustrational})
\]

(based on Burton, 2000)

Sample Running Record of Text Reading

Student's Name: __________________________ Date: _______________

Title: ______________________________________ Level: ____________

Page Read: ______________________________________

Type of Error or Error Word in First One Hundred Words

<table>
<thead>
<tr>
<th>Type of Error or Error Word</th>
<th>Accuracy Rate</th>
<th>Error Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>words read correctly</td>
<td>number of words</td>
</tr>
<tr>
<td></td>
<td>total number of words</td>
<td>number of errors</td>
</tr>
</tbody>
</table>

Self-correction Rate: 

Teachers should analyze the errors and self-corrections and then determine the instructional plans for the student based on the analysis.

Analysis of Errors and Self-corrections

1. Picture clues
2. Phonics clues
3. Syntactic (arrangement of words)
4. Reads on/does not reread
5. Asks for help
6. Chunking
7. Gets mouth ready
8. Skips words/goes on/rereads
9. Self-corrects
10. Goes back to find words somewhere else

Uses: ______ meaning
      ______ structure/syntax
      ______ visual

Fluency:
1. Word by word ............................................................ Reads in phrases
2. Too slow or too fast ...................................................... Appropriate pacing
3. No expression .............................................................. Appropriate expression
4. Not aware of punctuation ............................................ Aware of punctuation
5. Stumbles over sight words ........................................... Automatic sight word recognition

E2.4 Accuracy of Word Recognition Calculation

The following method can be used to calculate the accuracy of word recognition. Have a student read a passage then count the number of words correctly decoded and recognized divided by the total words read in the passage. Multiply this number by 100. This number equals the percent of accuracy.

Examples:

- 140 (known words) divided by 156 (total words read) x 100 = 89.7% (percent accuracy) or 90% accuracy. This text is too difficult for the student to use when doing repeated oral readings.

- 166 (words known) divided by 172 (total words read) x 100% = 95% (percent accuracy). This text is at the appropriate level for the student to use when doing repeated oral readings.

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When doing repeated oral reading with students, teachers are encouraged to choose a wide variety of materials and seek input from students as to what they enjoy reading. Materials may include magazines, CD covers, driver’s manual, newspaper articles (reviews of concerts and movies), and posters.

Remember, always choose material that is within the student’s independent/instructional reading level when implementing repeated oral readings.
E3 Recommendations for Teaching Reading Fluency

The following suggestions are provided for teachers to assist students in developing reading fluency.

• Model fluent reading for your students.

• The duration of the fluency instruction should be 15 to 30 minutes per lesson.

• Provide the student with corrective feedback (immediate feedback on every single error). The corrective feedback that students receive on one reading can help them become more accurate on their next reading.

• When doing repeated oral readings, the student can go over the words that were difficult to look for any possible letters or groups of letters that were problematic.

• Students require instruction in fluency along with continued instruction of phonics skills, vocabulary development, and reading comprehension strategies.

• The amount of practice will vary with each student, depending on his/her skills. Some students only need to read a word once to recognize it again while others need many exposures.

• Have students engage in multiple readings (three to four times).

• Provide students with concrete measures of progress (recording forms) so they can see their progress.

• Students can read along with books or any materials on a computer if you have a “read” program such as WYNN Wizard or Kurzweil 3000. Please refer to Appendix J, Assistive Technology, for further information.

• Incorporate Choral Reading into your classroom.

Adapted from Mather & Goldstein (2001); National Institute of Child Health and Human Development (2000); Reithaug (2002).
E4 Reading Fluency Activities to Get You Started

Repeated Reading

- For this procedure, the child reads the same passage repeatedly.
- Select a passage of 50 to 100 words slightly above the student’s independent level of reading.
- The student reads the passage while the teacher times the reading and counts the number of words that are pronounced correctly.
- Record the reading time and the number of words correctly read.
- Graph the results.
- Between readings, ask students to review the selection, and practise words that were problematic.
- Reread the passage until the predetermined goal is reached or until the student is able to read the passage fluently with few mistakes.

## Repeated Readings

Name: ________________________ Date: ___________ Estimated Grade Level ___________

Book: _______________________________ Number of words in passage ______________

<table>
<thead>
<tr>
<th># of seconds</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
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<td>100</td>
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</tr>
</tbody>
</table>

Neurological Impress Method (Heckelman, 1969, 1986)

- Select a passage at an independent reading level.
- Teacher reads aloud with a student for 10 - 15 minutes.
- Teacher reads a little ahead and louder than the student to allow the student to hear the word before saying it.
- Teacher points to the words while reading.
- This procedure helps to improve phrasing and intonation.

Adapted from Mather & Goldstein (2001).

Taped Books or Books on CDs

- Have the student listen to the tape/CD as he/she follows along with the book.
- The student can read along with the tape/CD.
- Students can also follow along as they read books on computers.
APPENDIX F

Spelling

F1 Recommendations for Teaching Spelling

F2 Spelling Activities to Get You Started
F1 Recommendations for Teaching Spelling

The following suggestions are provided to assist teachers when teaching students how to become independent, competent spellers.

- Words taught should represent patterns the student has encountered in reading.
- Students need to be taught why words are spelled with certain letters(s).
- Teach students meaningful parts of words so they can begin to look for the sense in word form (e.g., when do you double a consonant before adding “ing” as in “hopping” vs “hoping”).
- Encourage active study of words (explore word relationships, sort words into groups).
- Practise the memorization of high-frequency irregular spelling words through a multi-sensory approach (see, say, feel, write).
- Students should have ample practice writing learned words in many contexts. (Adapted from Moats, 1998).
- Graham, Harris, MacArthur, and Schwartz (1998) suggest that effective word study should focus on the whole word, pronunciation of the word, self-evaluation, and correction of the practiced response.
- Students should be encouraged to form a visual image of the word.
- Tracing of the word is helpful to many students.
- Use games to promote spelling practice.
- Use peer tutoring and cooperative group arrangements to study spelling words.
- Encourage students to evaluate and discuss spelling patterns and rules.
- Beers (2003) suggests posting word wall lists. Lists can include “spelling demons”, homonyms (principal/principle), suffixes/prefixes, school words (teachers’ names, courses), and thematic words (related to topics of study).
- Posting the most common spelling rules is also helpful to students to use as a reference.
- It important to look for patterns of spelling errors in order to better assist students with their difficulties.
- Teach words that are part of students’ listening and speaking vocabulary.
- Test a few words daily.
- Teach spelling words by using onsets and rimes.

  *Onset is the initial consonant of blend in a word (e.g., “b” in back or “bl” in black).*

  *Rime refers to the vowel plus the final consonant (e.g., “ing” in bring, “own” in clown and down).*
## F2 Activities to Get You Started

### Multisyllabic Spelling

<table>
<thead>
<tr>
<th>Write the Word</th>
<th>Say the Word</th>
<th>Write the # of Syllables</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Write and Say the Word</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

APPENDIX G

Written Expression

G1 Assessment of Written Expression

G2 Recommendations for Teaching Written Expression
## G1.1. Sample Writing Process Assessment Checklist

<table>
<thead>
<tr>
<th>A = Always = 5 marks</th>
<th>U = Usually = 3 marks</th>
<th>N = Never = 0</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>When pre-writing, the student:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>uses a variety of pre-writing techniques</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>considers the purpose of the piece</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>considers the audience for the piece</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>considers various possible points of view</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>considers possible formats appropriate to purpose and audience</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>When drafting, the student:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>produces a first rough draft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>produces subsequent drafts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>confirms point of view</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>confirms format appropriate to purpose and audience</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>confers with peers and teacher</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>revises the draft for content and clarity of meaning</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>edits the draft individually and collaboratively</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>When post-writing, the student:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>prepares a final, polished draft</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>decides if and how the written work will be shared or published</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>shares or publishes a variety of written forms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>decides which writing pieces become part of the portfolio</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Throughout the writing process, the student:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>reflects upon the written piece and revises accordingly</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>confers willingly with teacher and peers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>consults appropriate reference resources as needed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>monitors continuous progress</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From *English Language Arts: A Curriculum Guide for the Middle Level (Grades 6-9)* Draft (p.226) by Saskatchewan Learning, 2003, Regina, SK: Author.
### G1.2. Sample Writing Assessment and Evaluation

<table>
<thead>
<tr>
<th>Before</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What does the student do before writing?</strong></td>
<td></td>
</tr>
<tr>
<td>☐ Finds a topic or idea of personal interest or one appropriate for purpose and audience.</td>
<td></td>
</tr>
<tr>
<td>☐ Generates ideas for writing by using strategies such as brainstorming, questioning, quickwrite, conferencing, clustering, webbing, discussing, drawing.</td>
<td></td>
</tr>
<tr>
<td>☐ Accesses and gathers additional ideas and information from external sources.</td>
<td></td>
</tr>
<tr>
<td>☐ Selects and focuses topic.</td>
<td></td>
</tr>
<tr>
<td>☐ Develops a plan or approach.</td>
<td></td>
</tr>
<tr>
<td>☐ Chooses a writing format.</td>
<td></td>
</tr>
<tr>
<td>☐ Organizes ideas and</td>
<td></td>
</tr>
<tr>
<td>☐ Other:</td>
<td></td>
</tr>
</tbody>
</table>

| During | |
|--------| |
| **What does the student do during writing to communicate meaning?** | |
| ☐ Explores ways to start. | |
| ☐ Puts ideas down on paper. | |
| ☐ Drafts, shapes, connects, composes and creates. | |
| ☐ Experiments. | |
| ☐ Modifies, changes, and problem solves. | |
| ☐ Reflects and clarifies. | |
| ☐ Talks over draft with others and | |
| ☐ Other: | |

| After | |
|-------| |
| **What does the student do after writing?** | |
| ☐ Rereads during and after drafting. | |
| ☐ Rethinks what has been written. | |
| ☐ Reviews and edits content. | |
| ☐ Reviews, and edits form and organization. | |
| ☐ Checks language for clarity, precision, and appropriateness. | |
| ☐ Attends to conventions. | |
| ☐ Confers and discusses. | |
| ☐ Shows concern for overall appearance. | |
| ☐ Shares by reading aloud, reader's circle, displaying, “publishing”, and | |
| ☐ Other: | |

From *English Language Arts: A Curriculum Guide for the Middle Level (Grades 6-9)* Draft (p.212) by Saskatchewan Learning, 2003, Regina, SK: Author.
### G1.3. Sample Criteria for Assessing a Short Story

<table>
<thead>
<tr>
<th><strong>The setting:</strong> Where and when does the story take place?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Main characters:</strong> Who are the people in the story?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The conflict:</strong> What are the problems?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Conflicts:</td>
</tr>
<tr>
<td>External Conflicts:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The main character’s goal:</strong> What does the main character want to do?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The plot:</strong> What happens (sequence of events)?</th>
<th><strong>Language:</strong> What interesting language has been used to add to the story? (e.g., dialogue, imagery, metaphor)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>The resolution:</strong> How does it end?</th>
</tr>
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<tbody>
<tr>
<td></td>
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</tbody>
</table>

From *English Language Arts: A Curriculum Guide for the Middle Level (Grades 6-9)* Draft (p. 227) by Saskatchewan Learning, 2003, Regina, SK: Author.
### G1.4. Sample Written Language Checklist

<table>
<thead>
<tr>
<th>Language Knowledge/Abilities</th>
<th>Comments</th>
<th>Date Accomplished</th>
</tr>
</thead>
<tbody>
<tr>
<td>• writes complete sentences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• writes compound and complex sentences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• uses a variety of sentence patterns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• creates strong topic sentences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• adds detail to support topic sentence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• chooses effective verbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• uses descriptive words</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• sequences ideas and events appropriately</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• develops plot effectively</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• uses appropriate format for given/self-chosen audience and purpose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• uses imagery and sensory appeal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• expresses beliefs and opinions honestly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• collects and organizes ideas effectively</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• writes in a variety of genre (list these)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Teachers can use the above checklist as it is, or adapt it to fit their chosen objectives. It may also be adapted for student use. One checklist should not contain all writing criteria; editing/proofreading is less overwhelming when checklists are specific and fewer items are listed.

From *English Language Arts: A Curriculum Guide for the Middle Level (Grades 6-9)* Draft (p.218) by Saskatchewan Learning, 2003, Regina, SK: Author.
## G1.5. Sample Analytic Scoring Rubric for a Written Composition

<table>
<thead>
<tr>
<th>Criteria</th>
<th>5 (Strong)</th>
<th>4 (Competent)</th>
<th>3 (Adequate)</th>
<th>2 (Developing)</th>
<th>1 (Not yet)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Criterion 1: Message Quality</strong></td>
<td>Message is clear, focused, and well developed. Ideas and details are relevant, fresh, and appropriate to message.</td>
<td>Message is communicated but the text needs a clearer focus or more development of the ideas (e.g., details).</td>
<td>Unclear focus; no elaboration of idea(s) (i.e., details irrelevant or inappropriate content).</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Coherence (Organization)</strong></td>
<td>Text is sufficiently and logically developed. The central idea is clear. Transitions are effective.</td>
<td>The structure moves reader through text without confusion and there is a recognizable introduction and conclusion. The central idea is not sufficiently or logically developed or connections between ideas may not always be clear.</td>
<td>Text lacks clear sense of direction or development. Ideas may be strung together loosely, there may be an ineffective or nonexistent introduction or conclusion, and it may be hard to determine main point or method of development.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>Register and tone are appropriate and hold reader’s attention. Fresh, imaginative language is used to create an image, make a point, or capture reader’s interest. Sentences are well constructed and varied for emphasis or effect. Word choices are precise, interesting, and appropriate.</td>
<td>Register and tone are appropriate but not consistently used. Language tends to be more business-like than engaging. Attempts are made to use language imaginatively. Sentences are generally correct with some variety in length and structure. Words are adequate and correct but lack flair and originality.</td>
<td>No evidence of awareness of intended reader. Flat and unimaginative language is used. Sentences are incomplete, run-on, or simple in structure. Word choices are vague and immature.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Language Conventions</strong></td>
<td>Text adheres to accepted standards of format, usage, spelling, punctuation, and capitalization at developmental level. Some minor errors may be present.</td>
<td>Text shows a reasonable control over conventions. Some errors are made in format, usage, spelling, punctuation, or capitalization but they do not interfere with meaning.</td>
<td>Many errors in format, usage, spelling, punctuation, or capitalization make message difficult to understand.</td>
<td></td>
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</tbody>
</table>

From *English Language Arts: A Curriculum Guide for the Middle Level (Grades 6-9)* Draft (p.116) by Saskatchewan Learning, 2003, Regina, SK: Author.
G2 Recommendations for Teaching Written Expression

Because the process of writing is so complex it is very important that students observe teachers working through the various stages of the writing process. Teachers are encouraged to model each stage of the writing process in order to guide the students. If students observe teachers thinking, reflecting, and revising as they write, they will be more likely to adopt these practices. Other suggestions to consider are the following:

- Give students the opportunity to write on a daily basis. The only way one can improve his or her writing is to write often with the guidance of a teacher or support personnel.

- Make the purpose of the writing meaningful. Typically, students who have difficulty with writing do not like to write. Therefore, the more meaningful the writing project is the more likely they will be willing to write. For example, rather than asking students to keep a personal journal, engage the students in a response journal whereby the student writes to a teacher, administrator, parent, teacher associate, or peer. Cross-age student partners is a good way for students to work with others who are good writing models.

- Students will require instruction in all aspects of writing: spelling, types of sentences, organizing paragraphs, writing for different purposes, and writing conventions.

- Create opportunities for students to work together to plan, draft, revise, and edit their work.

- Incorporate writing activities across the curriculum.

- Publish students’ work in the school and local newspapers, newsletters, and magazines.

- Display students’ writing in the school.

- Keep a portfolio of students’ writing.

- Expose students to a wide variety of writing styles.

- Share your written compositions with students.

- Use reading activities to support writing development.

- Begin teaching writing skills in Kindergarten.

- Encourage students to use a portable keyboard or word processor. Many students prefer to use a computer because it is quicker to make revisions, the written product looks much neater and more professional, and typing is easier than printing or writing for students who have difficulty with fine motor tasks.

- If students do not have access to a computer or portable keyboard, encourage them to cut and paste during the editing phase.
### G2.1. Some Key Teaching Strategies to Help Students Become Competent and Confident Writers

<table>
<thead>
<tr>
<th>Some Strategies for Students to Use Before Writing</th>
<th>Some Strategies for Students to Use During Drafting</th>
<th>Some Strategies for Students to Use After Drafting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Do I:</strong> Consider why am I going to write (purpose, audience, point of view)? Think about what message I want to communicate? Generate and discover ideas for writing (brainstorming, webbing, interviewing, discussing, researching, reading, free writing, listening, viewing, categorizing,…)? Know what form (e.g., poem, narrative,…) I am going to use and how I am going to organize my ideas in that form?</td>
<td><strong>Do I:</strong> Select and develop ideas from my pre-writing into a first draft? Focus my purpose, audience, point of view, and confirm appropriateness of format? Write subsequent drafts for clarity of meaning? Add, delete, condense, move, rearrange or expand ideas? Conference about ideas with peers and teacher?</td>
<td><strong>Do I:</strong> Write a final, polished draft in legible handwriting or use a word processing program? Edit for content and organization? Edit for sentence fluency and word choice? Proofread for usage, spelling, capitalization, and punctuation? Decide if and how the work will be shared and/or published?</td>
</tr>
</tbody>
</table>

**Some Pre-writing Strategies Discussed in Guide (pp. 132-136)**

- Presenting mini-lesson, discussing, and modelling:
  - Gathering ideas:
    - Brainstorming
    - Thinking and Reflecting
    - Talking and Remembering
    - Jotting ideas and Drawing
    - Reading and Researching
    - Observing and Viewing
    - Asking 5 W’s + H
    - Constructing Thought Webs and Graphic Organizers
    - Interviewing, Listening to Music
    - Reading about and Researching
    - Free Writing, Role Playing
  - Planning and organizing for Drafting:
    - Outlining Mapping and Diagramming
    - Constructing Story Frames
  - Considering purpose, audience, point of view, and format (pp.135-136).

**Some During-writing Strategies Discussed in Guide (p. 136)**

- Presenting mini-lesson, discussing, and modelling:
  - Writing Rough Drafts
  - Conferring with Peers and Teachers
  - Revising for Meaning

**Some Post-writing Strategies Discussed in Guide (pp. 136-138)**

- Presenting mini-lesson, discussing, and modelling:
  - Revising (Editing and Proofreading)
  - Evaluating
  - Sharing
  - Conferring
  - Using Checklists
  - Participating in an Author’s Circle (pp.139-140).

**Additional Writing Strategies that I would Like to Try**

e.g., Writing Organizers, Guided/Layered Revision, I-Search Papers, ...

---

From *English Language Arts: A Curriculum Guide for the Middle Level (Grades 6-9)* Draft (p. 228) by Saskatchewan Learning, 2003b, Regina, SK: Author.
G2.2. Sample Teacher Checklist to Support Writing

1. Do I model and share writing strategies, as well as my own written work?
   - develop students’ explicit knowledge of the writing process and its recursive nature
   - have students write frequently on a variety of topics for a variety of purposes and audiences
   - introduce a variety of pre-writing, drafting, and revision strategies

2. Do I use mini-lessons to help students review or acquire writing skills or strategies or learn a specific language concept?
   - analyze what individuals and groups of students need to know, and build on what they already know
   - provide direct instruction and model writing strategies
   - provide short but focused direct instruction about a language concept, convention, format, or issue

3. Do I provide opportunities for students to write for a variety of purposes and audiences?
   - encourage students to express themselves
   - provide opportunities for students to describe, narrate, inform, and persuade
   - provide opportunities for students to reflect, clarify, and explore ideas
   - provide opportunities for students to entertain

4. Do I provide students with, and help them to use, a variety of tools to assist them during their writing?
   - provide language handbooks
   - provide dictionaries and thesauruses
   - use literature as models
   - include peer learning activities
   - design activities for students to use word processors and the Internet

5. Do I encourage and instruct students about how to use writing as a means of thinking, responding, and learning?
   - encourage students to collect writing ideas in their journals (e.g., key phrases from Thanksgiving dinner, a quick sketch of geese flying in formation)
   - provide time for students to write about what they are thinking (e.g., write down one question you have about this topic)
   - allow students to review, think, and write about a topic again (e.g., write about how your ideas regarding this topic have changed throughout the unit and why)
   - model and encourage use of a variety of strategies including jotting notes, creating idea webs, researching, and designing outlines or overviews
   - provide opportunities for students to experiment with words and writing formats

6. Do I encourage students to use writing folders?
   - encourage students to use folders to sift, sort, and store pre-writing notes
   - encourage students to collect drafts for revision in their folders
   - support students in collecting exemplary and polished work

7. Do I help students balance their attention to writing content, process, and product?
   - encourage students to generate ideas and say what they need to say
   - encourage students to use pre-writing, planning, drafting, conferencing, revising, editing, proofreading, sharing, and publishing strategies
   - encourage students to develop drafts into polished, finished compositions

8. Do I involve students in assessing writing practices and behaviours?
   - identify students’ strengths and needs before, during, and after writing
   - consider peer, teacher, and self-assessments (e.g., peer and teacher conferences)
   - use checklists, rubrics, and anecdotal notes
   - use both holistic and analytical scoring
   - involve students in developing assessment criteria and evaluation weighting
### Planning and Thinking Sheet

**Name:** ____________________________ **Date:** ________________

**Topic:** ____________________________________________

**Who am I writing for?** ______________________________________

**Why am I writing this?** ____________________________________

**What do I know about this topic?** ____________________________

____________________________________________________________________________

____________________________________________________________________________

**What do I need to find out about this topic?** ______________________

____________________________________________________________________________

____________________________________________________________________________

**What have I learned from my research about this topic?** ______________

____________________________________________________________________________

____________________________________________________________________________

**How can I organize my main ideas and supporting details?**

<p>| | |</p>
<table>
<thead>
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<tbody>
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</tr>
</tbody>
</table>

**What is my topic sentence?** ____________________________________

**How will I conclude my writing?** ________________________________
### G2.4. Sample Editing/Proofreading Checklist

Student: ____________________________ Date: ________________________

Title of the writing piece is: ________________________________________________________

My purpose is: __________________________________________________________________

My audience is: __________________________________________________________________

The form of my writing is: ________________________________________________________

Things that I like about this draft are: ________________________________________________
                                                                                       __________________________________________________________________

Things I think need improving are: __________________________________________________
                                                                                       __________________________________________________________________

**Editor:** (circle one) Self Peer Writing Group Teacher

<table>
<thead>
<tr>
<th>Item</th>
<th>Self</th>
<th>Peer</th>
<th>Writing Group</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capitalization</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is the first word of each sentence capitalized?</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are all proper nouns capitalized?</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

| **Overall Appearance** | | | | |
| Is the handwriting legible? Is the word process format consistent? | | | | |
| Are formatting, spacing, and margins appropriate? | | | | |

| **Punctuation** | | | | |
| Is end punctuation (.,?!) appropriate? | | | | |
| Is internal punctuation (,, „“) appropriate? | | | | |
| Are apostrophes, hyphens, and dashes used appropriately? | | | | |
| Are quotation marks used accurately? | | | | |

| **Spelling** | | | | |
| Does it look right? | | | | |
| Does it sound right? | | | | |
| Did you use a dictionary or ask a peer or the teacher for assistance? | | | | |

It is important to help students to focus their editing/proofreading by limiting the criteria listed on a checklist.

From *English Language Arts: A Curriculum Guide for the Middle Level (Grades 6-9)* Draft (p.217) by Saskatchewan Learning, 2003, Regina, SK: Author.
G2.5. Paragraph Guide

<table>
<thead>
<tr>
<th>Topic Sentence:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
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<td></td>
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</tbody>
</table>

Supporting Details:

1.                                                                 
2.                                                                 
3.                                                                 
4.                                                                 

Concluding or Transition Sentence:

### G2.6. Report Chart

<table>
<thead>
<tr>
<th>Title:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Introduction:</th>
<th></th>
</tr>
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<tbody>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Subtopics:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td></td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Details:</th>
<th>Details:</th>
<th>Details:</th>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conclusion:</th>
<th></th>
</tr>
</thead>
</table>

## G2.7. POWER: Looking at How I Write

<table>
<thead>
<tr>
<th></th>
<th>My Comments</th>
<th>Teacher Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I chose a good topic.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I read about my topic.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I thought about what the reader will want to know.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I wrote down all my ideas on a “think sheet”.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Organize</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I put similar ideas together.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I chose the best ideas for my composition.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I numbered my ideas in logical order.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Write</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I wrote down my ideas in sentences.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>When I needed help, I . . .</td>
<td></td>
<td></td>
</tr>
<tr>
<td>___ did the best I could</td>
<td></td>
<td></td>
</tr>
<tr>
<td>___ looked in a book</td>
<td></td>
<td></td>
</tr>
<tr>
<td>___ asked my partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>___ asked the teacher.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Edit</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I read my first draft to myself.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I marked the parts I like.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I marked the parts I might want to change.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I listened to my partner’s suggestions.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Rewrite</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I made changes to my composition.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I edited for correctness.</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>I wrote the final draft in my best writing.</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

APPENDIX H

Personal Program Plans (PPP)

H1 Personal Program Planning Policy and Guidelines
H2 Sample Personal Program Plans
H3 Sample Record of Adaptations
H4 Identifying Student Strengths
H1 Personal Program Planning Policy and Guidelines

Provincial policy and guidelines for planning, implementing and evaluating personal program plans is outlined in the *Children’s Services Policy Framework* (Saskatchewan Learning, 2002a).

**Rationale**

Students with exceptional needs require curricula, instruction, and supports appropriate to their individual strengths and needs. Curriculum and instruction can be tailored to individual needs through application of the Adaptive Dimension. However, in some situations, students may be working on objectives that are substantially different from those outlined in the Core Curriculum, and may require additional supports and services to access and benefit from the curriculum.

Effective professional practice indicates that educational objectives, instructional resources, and individualized supports are systematically planned, documented, monitored, and evaluated. For students on provincially approved programs of instruction, the objectives, instructional strategies, and resources are documented in Core Curriculum guides. For those students who are on individualized programs or who are receiving continuing special education support, the school-based team is responsible for collaboratively planning and documenting the program.

---

**Policy**

A Personal Program Plan based on the student’s strengths and needs is developed for each student who:

- requires continuing special education interventions and individualized supports to participate in and benefit from the educational program; or
- has been identified for individual incremental funding recognition.

**Guidelines**

- The Personal Program Plan (PPP) provides an outline of the student’s individualized program. It guides the day-to-day work of all the teachers and resource personnel involved with the student, but is not intended to be the daily instructional plan. The PPP provides parents with information regarding learning objectives and adaptations to support their child’s learning.

- The information included in the PPP is dependent on the needs of the student. For students who are receiving ongoing special education interventions in only one or two areas of the instructional program, the PPP addresses the particular area(s). For example, a very succinct PPP may be written for mathematics or English language arts.

For students with intensive educational needs, the PPP typically addresses several or all areas of instruction.

- The personal program planning process includes:
  - identification of student abilities, needs, and interests;
  - establishment of goals and objectives;
  - selection of appropriate strategies and activities; and
  - ongoing evaluation and revision of the plan.
• It is suggested that the written Personal Program Plan include:
  • pertinent personal and educational data, which may include baseline assessment data;
  • identification of the student’s strengths and needs;
  • long-term goals and short-term objectives;
  • instructional strategies and resources including participation in classroom activities and
    instruction with adaptations;
  • assessment methods;
  • the process for reporting of student progress;
  • assignment of responsibility for carrying out the plan;
  • provision of appropriate support services by qualified personnel (e.g., interpreters);
  • implementation of appropriate technology and equipment;
  • transition planning; and
  • process for review, evaluation, and updating of the plan.

• School division personnel collaborate with parents in the development, implementation,
  evaluation, and revision of the Personal Program Plan.

• The collaborative team includes those individuals directly involved with the student. For
  students who require a PPP in only one or two areas of instruction, key participants may be the
  classroom teacher, learning assistance/resource teacher, and parents. For those students on
  comprehensive PPP’s, key participants are parents/family, classroom teacher, school-based
  resource or learning assistance teacher, school-based administrator(s), educational assistant(s),
  and the student, where appropriate. The extended team may also include a system administrator
  and specialist or resource personnel from related support services at the school division or
  community level.

From *Children’s Services Policy Framework* (V. 4.1i–V. 4.1iii) by Saskatchewan Learning, 2002, Regina, SK: Author.
# Personal Program Plan

**Personal Program Plan**

**For Students With Learning Difficulties (Elementary)**

<table>
<thead>
<tr>
<th>Reason for Providing Support Services</th>
<th>Other Services Provided</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Achievement</td>
<td>In-School Counselling</td>
</tr>
<tr>
<td>Previous Recipient of Learning Assistance</td>
<td>English as a Second Language</td>
</tr>
<tr>
<td>Behavioural/Attentional Difficulties</td>
<td>Other</td>
</tr>
</tbody>
</table>

## Assessments

<table>
<thead>
<tr>
<th>Cognitive</th>
<th>WRMT-R</th>
<th>Key Math</th>
<th>CAT-3</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>Date</td>
<td>Date</td>
<td>Date</td>
<td>Date</td>
</tr>
<tr>
<td>WISC-IV</td>
<td>Grade Placement</td>
<td>Grade Placement</td>
<td>Computation and Numerical Estimation</td>
<td>Grade Placement</td>
</tr>
<tr>
<td>WJR</td>
<td>Word Ident.</td>
<td>Basic Concepts</td>
<td>Language/Writing Conventions</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Word Attack</td>
<td>Operations</td>
<td>Spelling/Dictation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Passage Comp.</td>
<td>Application</td>
<td>Vocabulary</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Full Scale</td>
<td>Total Test</td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(integrated)</td>
<td>Reading/Language</td>
<td></td>
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</tbody>
</table>

## Program

<table>
<thead>
<tr>
<th>Program</th>
<th>Dates of Intervention</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Class Support</td>
<td>to</td>
</tr>
<tr>
<td>Regular with Adaptations</td>
<td></td>
</tr>
<tr>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td>Pull-Out-Individual</td>
<td></td>
</tr>
<tr>
<td>Pull-Out-Small Group</td>
<td></td>
</tr>
<tr>
<td>In-Class Small Group</td>
<td></td>
</tr>
<tr>
<td>DATE</td>
<td>MEETINGS, CONFERENCES, REVIEWS, INTERVIEWS, TELEPHONE CALLS, ASSESSMENTS, FOLLOW-UP</td>
</tr>
<tr>
<td>------</td>
<td>---------------------------------------------------------------------------------</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>OBJECTIVES</td>
<td>LANGUAGE ARTS</td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Oracy</td>
<td></td>
</tr>
<tr>
<td>STRATEGIES/MATERIALS/RESOURCES</td>
<td></td>
</tr>
<tr>
<td>ONGOING EVALUATION</td>
<td></td>
</tr>
<tr>
<td>OBJECTIVES</td>
<td>LANGUAGE ARTS</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------</td>
</tr>
<tr>
<td></td>
<td>Writing</td>
</tr>
<tr>
<td>STRATEGIES/MATERIALS/RESOURCES</td>
<td></td>
</tr>
<tr>
<td>ONGOING EVALUATION</td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td>OBJECTIVES</td>
</tr>
<tr>
<td>------</td>
<td>------------</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPLETED BY</td>
<td>LEARNING STYLE</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------</td>
</tr>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PARENT'S SIGNATURE</th>
<th>DATES USED</th>
<th>ACCOMMODATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From St. Paul's R.C.S.S.D. No. 20, Saskatoon, Saskatchewan. Reprinted with permission.
H2.2. Learning Assistance and Classroom Supports for Middle Years Students

Year ____

Name ___________________________________ Birthdate ______________________
Parent/Guardian ______________________________________________________
Address ________________________________ Phone No.______________________
School ________________________________ Teacher________________________
Learning Assistance Teacher ______________________________________________________

**REASON FOR REQUESTING SUPPORT SERVICES**
- Academic Achievement
- Behavioural Difficulties
- Previous or Current Recipient of Learning Assistance
- Attentional Difficulties

**ASSESSMENTS**

<table>
<thead>
<tr>
<th>Cognitive</th>
<th>WRMT-R</th>
<th>Key Math</th>
<th>Other Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Administered: __</td>
<td>Date Administered: __</td>
<td>Date Administered: __</td>
<td>Date Administered: __</td>
</tr>
<tr>
<td>Grade Placement: __</td>
<td>Grade Placement: __</td>
<td>Grade Placement: __</td>
<td>Grade Placement: __</td>
</tr>
</tbody>
</table>

- WISC IV
- Woodcock-Johnson
- Other

Grade Equivalents
Word ID
Basic Concepts
Operation
Application
Total Test

Results have been shared with parents:  Cognitive  Y  N  Academic  Y  N

<table>
<thead>
<tr>
<th>Academic Performance</th>
<th>At Grade Level</th>
<th>Below Grade Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>(✓) Check appropriate box</td>
<td>Reading Decoding Skills</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reading Comprehension</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematical Reasoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Computation</td>
<td></td>
</tr>
<tr>
<td>Written Work:</td>
<td>Spelling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grammar/Mechanics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Organization</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Language Skills</td>
<td></td>
</tr>
</tbody>
</table>

**Possible Factors in Students Low Achievement**
- Organization
- Time Management
- Test Writing
- Study Skills
- Note-Taking
- Memory
- Listening Skills
- High Stress
- Language Skills
### Strengths/Interests/Learning Style

#### Social and Emotional Behaviours (✔)

<table>
<thead>
<tr>
<th>Self Concept</th>
<th>strong</th>
<th>weak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behaviour</td>
<td>cooperative</td>
<td>defiant</td>
</tr>
<tr>
<td></td>
<td>aggressive</td>
<td>passive</td>
</tr>
<tr>
<td></td>
<td>attentive</td>
<td>easily distracted</td>
</tr>
<tr>
<td>Work Attitudes</td>
<td>independent</td>
<td>dependent</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Presently Used</th>
<th>Needs to be Implemented or Continued</th>
<th>Accommodations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily assignment book/Daily communications book between teacher and home</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quality of work limited</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Word processor used for assignments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subject notes are photocopied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content reading is done orally</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Books on tape</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculator is used for computation (process for computation is known)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High percentage of grade given to daily assignments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Requires time extension for assignments or tests</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exams are written in a separate area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral exams</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exams are scribed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❑ Adapted Language arts program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❑ Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❑ Adapted Math program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❑ Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❑ Adapted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❑ Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technology is in place including: ________________________________</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counselling Support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Completed by ________________________________ Date ____________________________

Parent Signature ______________________________ Principal ________________________

## H2.3. Learning Assistance and Classroom Supports for Secondary Students

<table>
<thead>
<tr>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accommodations for Students with Attentional Difficulties</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Break long-term assignments into several smaller, more manageable components.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organize schedules for homework and assignments.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitor homework and assignment completion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ensure that the daily planner is completed (or use a daily assignment book).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitor time use; complete progress charts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teach student to self-monitor.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cue to stay on task.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organize notes, supply outlines.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check that notes are complete and accurate.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arrange a peer buddy so student can access a copy of the notes.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjust the amount of note-taking and copying required.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Highlight important concepts and information.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connect with classroom teachers when problems arise.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Support student in preparing study schedules.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Support student in preparing study guides.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teach test-taking and study skills.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact parents on a regular basis.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accommodations for Students with Learning Difficulties</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teach new strategies.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitor to see that student applies strategies for homework and assignments.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-teach or re-teach difficult concepts.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Help student to create webs to link information together.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provide lower level reading materials that deal with similar topics as regular texts.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provide audio tapes of difficult reading assignments and/or review notes.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Develop outlines and study guides with the student for each chapter.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Create a glossary of terms and develop an understanding of course vocabulary.</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Create visuals and diagrams to develop and remember concepts.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Teach memory strategies.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Select appropriate computer components for drill and practice of new skills or to build basic skills.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edit written work</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) using spell checker/word processor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii) proof reader (peer)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii) proof reader (teacher)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Provide concrete manipulatives to develop concepts.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arrange adaptations for tests</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) type of questions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii) time extensions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii) feedback at various stages</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>v)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provide readers or scribes for exams.</td>
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<td>Arrange for oral exams.</td>
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<td>Teach self-advocacy.</td>
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<td>Accommodations for Students with Cognitive Difficulties</td>
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<tr>
<td>Vary amount of material being learned.</td>
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<td>Simplify instruction.</td>
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<td>Reduce or substitute required assignment.</td>
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<td>Select test items specific to ability level.</td>
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<td>Provide ABC type exams.</td>
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<th>Recommendations for Adaptations in the Classroom</th>
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**Relevant Background Information**

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<td>V (   ) VI (   ) D/HH (   ) Other (   )</td>
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<tr>
<td>Phone: (306) 694-4686</td>
<td>1075 - 9th Avenue N.W., Moose Jaw, Saskatchewan S6H 1V7</td>
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<tr>
<td>Fax (306) 693-4631</td>
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**Board of Education**

H2.4. Moose Jaw School Division Personal Program Plan
## SPECIAL EDUCATION AND RELATED SERVICES

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<th>Program placement:</th>
<th>( ) Early Entrance (pre-school)</th>
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<td>( ) City Transit</td>
<td>( ) Cab</td>
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### Personnel Involvement

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<td>Educational Psychologist</td>
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<td>Occupational Therapist/Physiotherapist</td>
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<td>Mental Health-CYS-CYAP/ICMP - Mentors</td>
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<td>Behaviour Consultant</td>
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<td>Family Resource Centre</td>
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<td>Optometrist/Audiologist/Teacher of Deaf and Hard of Hearing</td>
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Cc: Classroom Teacher/ Special Education  
Moose Jaw School Division No. 1  
Name:  
2003-2004
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<th>Student Interests</th>
<th>School Goals</th>
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<th>Parent Goals</th>
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**Testing and Observations**
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<td>Classroom Teacher: _____________________________</td>
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File Original: cum folder
Cc: Coordinator of Special Education
Cc: Classroom Teacher/ Special Education
# PERSONAL PROGRAM PLAN

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<th>Student: __________________________</th>
<th>School: ______________</th>
<th>Grade: ____</th>
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<td>Classroom Teacher: ______________</td>
<td>Resource Room Teacher: ____________</td>
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<tr>
<td>D.O.B.: _________________________</td>
<td>Parents/Guardians: ____________</td>
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<td>Address: _________________________</td>
<td>Telephone: ___________________</td>
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**Background Information:**

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

**Testing:**

____________________________________________________________________

**Supports:**

____________________________________________________________________

**Strengths:**

____________________________________________________________________
____________________________________________________________________

**Needs:**

____________________________________________________________________
____________________________________________________________________

**Adaptations:**

____________________________________________________________________
____________________________________________________________________

**Signatures:** Reporting Period 1:

Parent: ___  Teacher(s): ___  Resource Teacher: ___  Principal: ___

Reporting Period 2:

Parent: ___  Teacher(s): ___  Resource Teacher: ___  Principal: ___

Reporting Period 3:

Parent: ___  Teacher(s): ___  Resource Teacher: ___  Principal: ___
Curriculum Area: ______________________________________________
Long Term Goal: ______________________________________________

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<th>Short Term Objectives</th>
<th>Instructional Strategies</th>
<th>Materials</th>
<th>Evaluation</th>
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# Classroom Teacher’s Record of Adaptations

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<th>Subject(s)</th>
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## Environment

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<tbody>
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<td>Considering times of day for optimum learning</td>
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<tr>
<td>Being aware of sensitivity to sound, light, temperature, and ventilation</td>
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<td>Considering position in classroom</td>
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<tr>
<td>Considering seating at desk (size, wheelchair accessible, etc.)</td>
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<tr>
<td>Providing strategies for organization (timetable, list of items to complete, handbook, calendar, colour-coded duotangs, etc.)</td>
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<tr>
<td>Using learning aids (computers, tape recorders, etc.)</td>
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<td>Varying seating during group work</td>
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<tr>
<td>Providing additional work space (table, extra shelf, etc.)</td>
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<td>Providing for physical movement</td>
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<td>Providing for tutors</td>
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<td>Providing for heterogeneous cooperative learning groups</td>
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<td>Learning objectives: concepts relevant to student</td>
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<td>Using untimed tests</td>
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<td>Revising test directions/formats</td>
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<td>Allowing for flexible test scheduling/settings</td>
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<td>Providing the opportunity to record answers in any manner (e.g., computer)</td>
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<td>Allowing the use of a tape recorder for testing</td>
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<td>Giving credit for effort</td>
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<td>Giving extra credit for projects/assignments instead of formal tests</td>
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<td>Using various types of evaluation for the same skill</td>
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<td>Ongoing varied assessments that provide reinforcement to the student</td>
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**CLASSROOM TEACHER’S RECORD OF ADAPTATIONS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Birthdate</th>
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<th>Subject(s)</th>
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**CURRICULUM AND EVALUATION**

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**Regina R.C.S.S.D. No. 81 Record of Adaptations – Continued**
Pre-teaching new vocabulary, concepts, symbols
Simplifying language of instruction
Providing immediate feedback
Using cooperative teaching
Using cooperative learning groups
Using peers as scribes, readers, models
Using concept mapping to summarize key points
Increasing opportunities for skill development and practice
Providing repetition and review
Simplifying instructions
Summarizing and repeating instructions
Writing instructions on board
Modifying the pace of the lesson
Speaking slowly/clearly
Standing close to student
Having student paraphrase instructions
Providing task analysis (breaking information into steps)
Using paired reading/shared reading strategies
Emphasizing routines
Providing for heterogeneous work group
Providing for tutors
Providing opportunities to verbalize information and strategies
Providing additional guidance
Providing manipulatives
Providing learning aids (computers, calculators, tape recorders, charts, number lines, multiplication tables, highlighters, etc.)
Providing date and number stamps
### INSTRUCTION (cont’d)

<table>
<thead>
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<th>GRADE</th>
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<th>3</th>
<th>4</th>
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</thead>
</table>

- Providing demonstrations
- Drawing pictures
- Providing photocopied information
- Providing simple diagrams for information
- Completing first example with student
- Blocking items on a page
- Varying complexity of assignments and projects
- Using videos for review
- Using overheads
- Involving students in presentation of information
- Providing one-to-one instruction
- Using large group/small group instruction
- Reducing workload
- Providing additional time for assignments
- Using rewards
- Allowing for different interests
- Pre-teaching and reviewing of skills
- Using variety of print and non-print materials
- Teaching organizational strategies
- Monitoring frequently

### Appendix H

#### H.4 Identifying Student Strengths

**H.4.1 Seven Intelligences – Seven Ways to Be Smart**

*(Ways to prepare lessons using different intelligences)*

<table>
<thead>
<tr>
<th>Intelligence</th>
<th>Teaching Activities (Examples)</th>
<th>Teaching Materials (Examples)</th>
<th>Students Learn by (Examples)</th>
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<tbody>
<tr>
<td>Verbal/Linguistic</td>
<td>large and small-group discussion, choral reading, storytelling, poetry reading, lectures, writing, word games, brainstorming, reader’s theatre</td>
<td>books, tape recorders, journals, word games, books on tape, word processors, talking books, manuals</td>
<td>reading, writing, telling, listening, speech making, following directions, journal writing, tapping own and others’ thoughts and ideas</td>
</tr>
<tr>
<td>Logical/Mathematic</td>
<td>science experiments, mental calculation, number games, solving pattern problems, using formulas, critical thinking, logical problem-solving exercises, analytical thinking</td>
<td>calculators, science games, science equipment, mathematics games, logic puzzles, mathematics manipulatives</td>
<td>analytical thinking, categorizing, classifying, quantifying, critical thinking, conceptualizing, logical-sequential presentation of material</td>
</tr>
<tr>
<td>Visual/Spatial</td>
<td>visual presentations, mind mapping, using graphic organizers, visualization, imagination games, making connections and patterns, painting word pictures, creating metaphors, field trips</td>
<td>films, videos, art materials, pictures, slides, graphs, maps, charts, collages, posters, models, optical illusions, overhead projector, computer graphics and design software, CD-ROMs, cameras, telescopes, microscopes</td>
<td>mind mapping, colouring, seeing, drawing, visualizing, diagramming, seeking visual patterns, creating, designing, imagining</td>
</tr>
<tr>
<td>Body/Kinesthetic</td>
<td>all types of hands-on learning, science and mathematics experiments, drama, dance, sports that teach, role-playing, charades, field trips, mime, games, body language communication, cooking, gardening, real-life activities</td>
<td>mathematics manipulatives, real-life materials, virtual reality software, science labs</td>
<td>interacting through space and with objects, tactile experiences-touching, building, fixing, manipulation materials, learning by doing</td>
</tr>
<tr>
<td>Musical/Rhythmic</td>
<td>playing music, using live music, group rapping, chanting, using tonal patterns, singing, humming, sound appreciation activities, using rhythms, listening to and identifying environmental sounds</td>
<td>musical instruments, tapes, music software</td>
<td>hearing music in the environment, responding to and associating sounds, creating music and rhythmic patterns, singing</td>
</tr>
<tr>
<td>Interpersonal</td>
<td>peer tutoring, collaborative learning, conflict mediation, group brainstorming, community involvement, club activities, social construction of knowledge</td>
<td>board games, simulation games, interactive software</td>
<td>interacting with and learning about others, interviewing, sharing, observing others, teaching, debating, discussing</td>
</tr>
<tr>
<td>Intrapersonal</td>
<td>individualized instruction, independent study, providing options in course study</td>
<td>journals, individualized work materials</td>
<td>reflecting, making connections to personal life and feelings, having own space</td>
</tr>
</tbody>
</table>

H4.2. Personal Inventory

Student name: ____________________________________  Date: ______________________

Personal Inventory

*Complete the following web with key words and phrases that describe your personal learning styles and preferences.*

H4.3. Know Your Own Strengths Inventory

<table>
<thead>
<tr>
<th>Date: ______________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: ______________________</td>
</tr>
</tbody>
</table>

A. List four successful experiences you have had in the last 12 months:
- • ____________________________________ • ____________________________________
- • ____________________________________ • ____________________________________

B. List four everyday things you do well:
- • ____________________________________ • ____________________________________
- • ____________________________________ • ____________________________________

C. List two things you could teach someone else:
- • ____________________________________ • ____________________________________

D. List ten positive words to describe yourself:
- • ____________________________________ • ____________________________________
- • ____________________________________ • ____________________________________
- • ____________________________________ • ____________________________________
- • ____________________________________ • ____________________________________
- • ____________________________________ • ____________________________________

E. List two things that really matter to you:
- • ____________________________________ • ____________________________________

F. List two things you can do for yourself that will always make you feel good:
- • ____________________________________ • ____________________________________

G. List two people who you can count on for help and support:
- • ____________________________________ • ____________________________________

H4.4. Student Information/Interest Sheet

Student Name: __________________________________________________________________

Homeroom: __________________________ Date of Birth: __________________________

Home Address: __________________________________________________________________

______________________________________________________________________________

City: __________________________ Province: ______________ Postal Code: ____________

Home Telephone Number: __________________________

Mother’s Full Name: ____________________________ Business Phone # ________________

Father’s Full Name: ____________________________ Business Phone # ________________

Siblings: Name: ____________________________ Age: ________

Name: ____________________________ Age: ________

Name: ____________________________ Age: ________

• The school I attended last year: ____________________________________________________

• The subjects I like most in school are: ______________________________________________

• The subjects I like least in school are: ______________________________________________

• In my spare time, I like to:________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

• My favourite TV shows are: ______________________________________________________

• My favourite movie is: __________________________________________________________

• I believe… ____________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________

• Other important information (health concerns, family situations): ______________________

______________________________________________________________________________

• I am a bussed student: ❑ yes ❑ No

APPENDIX I

Transition Planning

I1 Transition Planning Policy and Guidelines
I2 Transition Checklist
I3 Post-Secondary Institutions and Community Based Services for Students with Learning Disabilities
I1 Transition Planning Policy and Guidelines

Policy and guidelines outlined in the Children’s Services Policy Framework (Saskatchewan Learning, 2002) are provided to assist school and school division personnel in planning for transitions.

Rationale

All students go through a number of transitions in their school careers. This includes minor transitions such as moving between activities, settings, and grade levels; and major transitions such as the transition from preschool to elementary school, from elementary to high school, and from high school to adult life.

Students with exceptional learning and behavioural needs may need assistance to adjust to and benefit from change and new experiences. Advanced planning is necessary to ensure that the student has access to, and is able to participate in future environments.

**Policy**

Transition planning is an integral part of the personal program planning process for students with diverse needs. Personal Program Plans for students with exceptional needs include documentation of transition planning.

**Guidelines**

- Transition planning is student and family-centred.
- A collaborative team approach is used throughout the planning process. The team members vary depending on the nature of the transition. At a minimum, key members are the student, parents/family, and personnel from the sending and receiving programs. For example, transition planning from one educational setting to another should include personnel from both the sending and receiving classrooms.
- Other transitions may require a more extensive transition planning team. For example, the transition team for a student entering Kindergarten would include those who have been involved with the student and family (e.g., an early childhood interventionist, preschool teacher, speech/language pathologist, or physical therapist). The extended planning team for transition from school to adult life might include representatives from community services, a social worker, advocate, and potential employer.
- The school program is comprehensive and flexible and provides the student with the opportunities to develop skills needed in the future environment.
- Planning for transition is student-directed to the maximum extent possible and includes exploration of a range of options.
- Planning for transition is documented as part of the Personal Program Plan.
- Policies and procedures are in place to facilitate the sharing of information. Upon the consent of the family or student of legal age to provide consent, information is shared with future educational or vocational environments.
• Detailed guidelines for transition planning for students with a range of exceptional needs are included in the document *Creating Opportunities for Students with Intellectual or Multiple Disabilities* (Saskatchewan Education, 2001) and *School to Life Transition Handbook: Five Steps to Successful Planning* (McLeod, 1999).
Appendix I

I2 Transition Checklist

This transition checklist is not only intended to be completed at the finish of high school, but to serve as a guide to the types of activities that the student should be engaged in during high school.

☐ I have an updated copy of my last psycho-educational assessment.

☐ I have a copy of my most recent Personal Program Plan.

☐ I have copies of my transcripts.

☐ I have pertinent medical information I need to share.

☐ I have contacted the special needs offices of the institutions I am considering.

☐ I have prepared a set of questions to ask regarding accommodations for my specific needs at these institutions.

☐ I have the addresses and phone numbers of the people who have provided assessment of my specific needs.

☐ I have a record of the assistive technology that has been previously provided.

☐ I have checked the accommodation policies of the institutions I am considering.

☐ I have prepared a list/inventory of my successes and accomplishments at school and in the community.

☐ I have a summary of career searches/exploration I have completed.

☐ I have visited the campuses (electronically or in person) of the institutions I am considering.

☐ I have researched funding sources and financial assistance opportunities.

☐ I have completed the goals of my transition plan.

I3  Post-Secondary Institutions and Community-Based Services for Students with Learning Disabilities

I3.1. Learning Disabilities Association Saskatchewan (LDAS)

The Learning Disabilities Association has existed in Saskatchewan since 1971. LDAS is a non-profit organization that works at local, provincial, and national levels to promote understanding and improved services for people with Learning Disabilities. Chapter Offices are located in Regina and Saskatoon. From time to time there have been various Chapter Offices throughout Saskatchewan. Please contact the Provincial Office for further information on Chapter locations.

The provincial office in Saskatoon offers the following services:
• ABSee Reading Program;
• Destination Employment Program/Screening for Success;
• Support for Parents;
• Quarterly Newsletter;
• Lending Library;
• Workshops and Conferences;
• Vocational counseling, referral, and job placements;
• Programming for adults with learning disabilities; and
• Summer Sunshine Day Camp.

Contact Information:

LDAS
609 - 25th Street East
Saskatoon, SK S7K 0L7
Phone: 306-652-4114
Fax: 306-652-3220
Email: reception@ldas.org
Website: www.ldas.org

LDAS – Regina Branch Office
805 Victoria Avenue
Regina, SK S4N 0R5
Phone: 306-352-5327
Fax: 306-352-2260
Email: ldas.reginabranch@sasktel.net
Website: www.geocities.com/regina_lda
I3.2. University Services

Each University has an office that provides support to students with disabilities. Please call the office or contact the website for more information on the specific services available.

Contact Information:

Disability Services for Students – University of Saskatchewan
Room 60 – Lower Place Riel
1 Campus Drive
Saskatoon, SK S7N 5A3
Phone: 306-966-7273
Fax: 306-966-5081
Email: dss@usask.ca
Website: www.usask.ca/students/dss

Disability Resource Centre – University of Regina
251.15 Dr. William Riddell Centre
3737 Wascana Parkway
Regina, SK S4S 0A2
Phone: 306-585-4631
Fax: 306-585-5172
Email: dianne.mader@uregina.ca
Website: www.uregina.ca/studserv/disability/guide

I3.3. Saskatchewan Institute of Applied Science and Technology (SIAST)
Transition to Post-Secondary Education and Employment Program

The Transition to Post-Secondary Education and Employment Program serves adults with a diagnosis of LD, and/or ADD/ADHD. This ten month bridging program assists adults to develop independence in a post-secondary or employment setting by providing them with the necessary skills and strategies needed to be successful.

The course offers skills and strategies in the areas of reading, oral and written language development, interpersonal communication, time management, organization, memory, study and test taking, computers, interpersonal communication, assistive technology, advocacy and self knowledge, as well as career planning. The program recognizes that not all skills and strategies can be taught in isolation. Therefore, students have an opportunity to audit classes or take a class for credit at one of the post-secondary institutions, upgrade Grade Twelve credits, or apply the skills and strategies in an employment placement setting. Students collaborate with instructors to design personal development, learning, and career planning activities that will support their individual goals and allow them to experience a post-secondary or employment environment.

Tuition and materials may be provided by Employability Assistance for People with Disabilities (EAPD). Living costs are the student’s responsibility. Students may be eligible for the Provincial Training Allowance (PTA).
Contact Information:

SIAST Kelsey Campus
P.O. Box 1520
Saskatoon, SK S7K 3R5
Phone: 306-933-7549
Fax: 306-933-5867

SIAST also offers a variety of adaptations in a number of areas for all programs for students with learning disabilities who qualify. Further information can be obtained by contacting an Education Equity Coordinator at the following campuses:

Kelsey – (306) 933-6445
Palliser – (306) 694-3014
Wascana – (306) 798-4274
Woodland – (306) 953-7083.

I3.4. Government of Saskatchewan – Employability Assistance for People with Disabilities (EAPD)

The EAPD Program provides funding to assist adults with disabilities to prepare for, secure, and maintain employment. Various supports are offered, including training on the job, vocational and work assessments, psycho-educational assessments, job coaching, support for employers, and disability-related costs in a wide variety of post-secondary education and training programs. In order to be considered for funding, one must be a resident of Saskatchewan between the ages of 18 and 64, and complete the written application. The EAPD program will provide the appropriate level of funding based on the needs of the individual identified in each application. Funds are limited and not all applications are approved.

Contact Information:

Saskatchewan Learning
EAPD Program Manager
1945 Hamilton Street, 12th Floor
Regina, SK S4P 3V7
Phone: 306-787-5602
I3.5. Saskatchewan Learning Provincial Training Allowance (PTA)

The Provincial Training Allowance (PTA) is grant funding to assist with the costs of living for low income adult students enrolled in basic education and related studies, bridging programs, or quick skills training which are not approved for student loan funding. Clients with permanent disabilities can apply for PTA to assist with living costs as long as they are enrolled in a PTA approved program. EAPD funding may be provided to assist with the disability related costs. Application forms and further information is available through the PTA Coordinators at SIAST campuses and Regional Colleges.

Contact Information:

Saskatchewan Learning Provincial Training Allowance  
4635 Wascana Parkway  
Regina, SK S4P 3V7  
Phone: 306-787-0923

I3.6. Government of Canada - Human Resources Development

The Government offers a Canada Study Grant Program for Canadian students with disabilities. This grant directly offsets the cost of services or equipment that students with disabilities need in order to participate in post-secondary education.

Contact Information:

Media Relations Office  
Human Resources Development Canada  
Phone: 819-994-5559  
Website: www.canlearn.ca
## APPENDIX J

*Assistive Technology*

<table>
<thead>
<tr>
<th>J1</th>
<th>Reading and Writing Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>J2</td>
<td>Reading Materials</td>
</tr>
<tr>
<td>J3</td>
<td>Phonological, Phonemic, Phonics Training Software</td>
</tr>
<tr>
<td>J4</td>
<td>Voice Recognition Software</td>
</tr>
<tr>
<td>J5</td>
<td>Mathematics Software</td>
</tr>
<tr>
<td>J6</td>
<td>Hardware</td>
</tr>
</tbody>
</table>
Numerous software programs and assistive devices are available for students who have difficulty reading and writing.

**J1 Reading and Writing Software Programs:**

1. **What You Need Now (WYNN)**
   
   **WYNN Reader** provides a variety of functions for students who struggle with reading and writing. This software was designed with the assistance of students and adults with specific learning disabilities. It can be used with a standard PC. WYNN Reader assists students with reading, writing, and studying.

   **Ordering Information:**
   
   Freedom Scientific
   Learning Systems Group
   1-888-223-3344

   Prices available at [www.infotaxi.ca/current_price_list.htm](http://www.infotaxi.ca/current_price_list.htm)

   WYNN is also available through Aroga at [http://www.aroga.com/learning/learning.asp](http://www.aroga.com/learning/learning.asp)

2. **Kurzweil 3000**

   The Kurzweil 3000 software is very similar to the WYNN program as it also supports reading, writing, and study skills. Kurzweil 3000 has the capability to incorporate many options when reading text to a student. When students type text into the computer it can be voiced back to them. It has e-mail options and reads the web. Worksheets and examinations can be scanned into the program and students can complete the questions by either typing in the answers or with speech feedback.

   **Ordering Information:**
   
   Betacom Bridges is the Canadian representative (1-800-353-1107)
   Winnipeg (204-668-6811)
   Vancouver (1-866-655-3855)
   [http://www.betacom.com](http://www.betacom.com)

3. **Academy of Reading – AutoSkills**

   This software program supports instruction in the area of phonemic awareness, phonics, oral and silent reading comprehension. The program is appropriate for school aged children (Kindergarten to Grade 12) and adults.

   **Ordering Information:**
   
   AutoSkill (1-800-288-6754)
   Representative in Edmonton is Edu-Skills
   (Eric MacInnis 1-403-844-8490)
4. Co:Writer 4000
Co:Writer is a software program that assists students with writing. It adds word prediction, grammar, and vocabulary support to any word processor or email program. It is able to generate possibilities for the word a student may use by combining knowledge of spelling, grammar rules, context clues, student history, and letter cues. It includes topic dictionaries for curriculum specific vocabulary. Teachers can add their own topic dictionaries; however, many have already been created including one for Harry Potter.

5. Write:Outloud
Write:Outloud is another software program to assist with the writing process. It gives students immediate speech feedback as they type. Students are able to get feedback to check for proper word usage, tense inflections, omitted words, and misspellings (cues students if they misspell a word). Students are able to see and hear if their writing makes sense.

A teacher’s guide is included with the program along with 50 sample files to demonstrate application ideas.

Ordering Information:
Don Johnston Incorporated
1-800-999-4660
http://www.donjohnston.com

Betacom Bridges is the Canadian representative (1-800-353-1107)
Winnipeg (204-668-6811)
Vancouver (1-866-655-3855)

6. Kidspiration
Kidspiration is a visual learning tool that helps students read, write, and express themselves. The software program is an integrated picture and writing system that provides maps, webs, and diagrams to help students organize their thoughts. The program helps students develop visual concepts and expand those ideas into written expression. Kidspiration has an audio feature to allow students to record their words and have their work read aloud.

7. Inspiration
Inspiration is a writing tool to assist students in organizing and linking their ideas. It is a visual tool that helps students diagram and outline their thoughts and facts. The program can be used across the curriculum for whole group discussions and for independent work. Inspiration has internet capabilities to allow the student to set up live hyperlinks to web pages.

Ordering Information:
Betacom Bridges is the Canadian representative (1-800-353-1107)
Winnipeg (204-668-6811)
Vancouver (1-866-655-3855)
J2  Reading Materials:

*Start-to-Finish Books* is a high interest/controlled vocabulary reading series. Three formats of the book are available—narrated computer book on CD, paperback book, and audiocassette. Students can follow along with the narrator on the computer book and see words highlighted on the screen. After every chapter, there are comprehension questions (cloze procedure or multiple choice). Questions are automatically graded and an accumulated record of each student’s performance is available. Classic adventures, history, sports, science and nature, and mystery series are available. The literature series includes some of Shakespeare’s plays.

**Ordering Information:**

Don Johnston Incorporated  
1-800-999-4660  
http://www.donjohnston.com

J3  Phonological Awareness and Phonics Software:

1. Earobics  

**Instructional Level:** Preschool to adults

**General Comments:**

- Earobics Level I (ages 4 to 7).
- Earobics Level II (ages 7 to 10).
- Two versions available:
  - Specialist/Clinician/Home (allows 2 children to register)
  - Pro Plus (allows 25 children to register) includes data collection and report writing features.
- Earobics 1 for Adolescents & Adults.
- Suitable for older children and adolescents experiencing delays in phonological development.
- Based on principles for instruction of phonemic awareness.
- Provides **supplemental** instruction to children.

**Ordering Information:**

Betacom Bridges is the Canadian representative (1-800-353-1107)  
Winnipeg (204-668-6811)  
Vancouver (1-866-655-3855)
**J4 Voice Recognition Software:**

1. **Dragon Naturally Speaking Preferred 7.0 and Professional 7.0**
   - Speech recognition technology.
   - Offers text to speech features.
   - Dictation playback features that assist with editing.
   - Provides support for approved hand-held recording devices to enable you to create text when you are away from your PC.
   - Fully integrated with Microsoft Word, Excel, Internet Explorer, Corel, and WordPerfect.

**Ordering Information:**
Advanced Speech and Imaging  
A Division of Assistive Technologies  
1-888-634-8200  
http://www.dragonsys.com/naturallyspeaking/preferred

**J5 Mathematics Software:**

**Academy of Math**
   - Program is targeted for any student who needs to develop basic math skills.
   - Student support resource that includes from basic skills to high school.
   - Program offers a combination of task breakdown, sequencing, and mastery criteria to achieve math fluency.

**Ordering Information:**
AutoSkill (1-800-288-6754)  
Representative in Edmonton is Edu-Skills (Eric MacInnis 1-403-844-8490)
J6 Hardware:

1. **AlphaSmart 3000**
   AlphaSmart is a lightweight, portable keyboard that can be connected to any computer to transfer written material so that it can be edited and revised using a word processor.

2. **QuickLink Pen**
   The QuickLink Pen is a handheld scanner. Students can scan printed text from books, newspapers, journals, and magazines. The information can then be transferred to a computer to use in writing assignments and papers. The QuickLink Pen has the capability to scan text directly into a word processor.

3. **Reading Pen II**
   The Reading Pen II is a handheld tool that allows students to scan a word, hear the word read aloud, and get the definition.

4. **Speaking Homework Wiz**
   This tool helps students to look up words they cannot spell. Speaking Homework Wiz allows students to type in words phonetically and the correct spelling and pronunciation of the word is produced. Word definitions are concrete and easy to understand.

5. **Homework Wiz Plus**
   Homework Wiz Plus is a non-speaking speller and dictionary that also includes a calculator. It is silent so students can use it during regular class without disturbing others.

**Ordering Information:**
Betacom Bridges is the Canadian representative (1-800-353-1107).
Winnipeg (204-668-6811)
Vancouver (1-866-655-3855)
REFERENCES


Torgesen, J., & Mathes, P. G. (2000). *A basic guide to understanding, assessing, and teaching phonological awareness.* Austin, TX: PRO-ED.


http://www.selu.edu/academics/education/tec/yopp.html.
INTERNET RESOURCES

The International Dyslexia Association
This site provides information about dyslexia for students, parents, and educators. Also available are research based articles, information on assistive technology, and a list of international conferences.

http://www.ldonline.org
This site features research articles on learning disabilities.

The Learning Disabilities Association of Canada/Troubles d’apprentissage – Association canadienne
http://www.ldac-taac.ca
This national site provides general and professional information. Links to scholarships, research projects, and other resources are available.

Information and Inspiration for Parents and Teachers of Children with Learning Disabilities by Richard Lavoie
http://www.ricklavoie.com
This web site provides research articles, list of upcoming workshops, videos, and books. Includes recommended links.
SUGGESTIONS DE RESSOURCES POUR L’IMMERSION


**Technologie**

*Kidspiration et Inspiration*

Logiciels pour aider les élèves à écrire, à développer les idées et à organiser leurs idées … beaucoup de schémas. Peuvent-être personnalisés par l’enseignant selon le besoin des élèves et même pour mettre les directives et questions en français – il n’y a pas encore une version française.

Strategic Transitions Inc.
“International Inspiration Software Associates”
58 Twelve Oaks Dr.
Aurora, ON. L4G 6J4
Tél. 1 (905) 726-2853
Téléc. 1 (905) 726-2856
www.strategictransitions.com

*AlphaSmart*

Un clavier portable qui peut être branché à n’importe quel ordinateur pour transférer du matériel écrit pour qu’on puisse corriger et revoir ce qu’on écrit en utilisant un traitement de texte.

N. B. Il y a un clavier français.
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Vancouver Télé. 1 (866) 655-3855
www.betacom.com