

SRPSD Grade 3 Science Rubrics

Life Science: Plant Growth and Changes (PL)

PL3.1 Investigate the growth and development of plants, including the conditions necessary for germination.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I know what plants need to live. f)	I can identify the parts of a plant and explain their function. I understand the life cycle of a plant. b) i) e) j) m)	I can explain the conditions that are needed throughout the entire life cycle of a plant. a) g) h) l)	I can use my knowledge of plant growth and development to provide possible explanations and solutions for an unhealthy plant. k) c)

PL3.2 Analyze the interdependence among plants, individuals, society, and the environment.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify how plants are useful to me. a)	I can describe ways plants and humans depend on each other and identify a variety of products that come from plants. b) g) d) j)	I can analyze how various cultures in society use and depend on plants in the environment. c) i) f) e) h) i)	I can explain and suggest practices for the preservation of plants. k) l) m)

Physical Science: Structures and Materials (SM)

SM3.1 Investigate properties of materials and methods of joinery used in structures.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify materials needed to build and use tools safely. d) f)	I understand the physical properties of materials needed to build a structure. b) c) d)	I can explain the most suitable materials and method of joinery needed to build a structure. e) h) i)	I can use my knowledge of physical properties to select appropriate materials and joinery methods to create and test a structure for an identified purpose. g) a)

SM3.2 Assess the function and characteristics of strong, stable, and balanced natural and human-built structures.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify natural and human built structures.	I can compare characteristics of natural and human built structures. a) d) e) f) g)	I can explain and compare structures based on characteristics of strength, stability, and balance. c) h) o) p)	I can design, build, and assess the qualities of my structure using my knowledge of characteristics of strength, stability and balance. i) l) m) n)

SRPSD Grade 3 Science Rubrics

Physical Science: Magnetism and Static Electricity (ME)

ME3.1 Investigate the characteristics of contact (e.g., push, pull, and friction) and non-contact (e.g., magnetic and static electric) forces.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can give an example of a magnetic or static electricity force.	I can identify and compare contact and non-contact forces. d) e) g)	I can explain the characteristics that affect contact and non-contact forces. b) c)	I can use my knowledge of contact and non-contact forces to predict, test, observe and explain conditions that affect the strength on these forces. f) h) i)

ME3.2 Assess effects of practical applications of magnetic and static electric forces on individuals and society.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can give an example of static electricity in my life. g)	I can classify magnets as; natural, temporary, permanent, and describe magnetic forces as; attract, repel, push and pull. b) e) f)	I can explain the uses of magnets and static electric forces in the world. a) c) h) i)	I can use my knowledge of magnets and static electric forces to create an object that uses one or both of these forces. d)

Earth and Space Science: Exploring Soils (ES)

ES3. Investigate the characteristics, including soil composition and ability to absorb water, of different types of soils in their environment.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can recognize there are different types of soil in my environment. a)	I can identify the physical characteristics of soil. b) d)	I can classify and sort soils based on their physical characteristics such as texture, ability to absorb water, particle size and colour. c) e) f) g) h)	I can communicate my understanding of physical characteristics of soils in a variety of ways based on my investigations. i) j)

ES3.2 Analyze the interdependence between soil and living things, including the importance of soil for individuals, society, and all components of the environment.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify a purpose of soil.	I can relate the characteristics of soil to its uses. d)	I understand the connection and importance between soil and living things in the world. a) b) c)	I can explain and suggest practices for the preservation and sustainability of soil. g) h)