SRPSD Grade 6 Science Rubrics

Life Science: Diversity of Living Things (DL)

DL6.1 Recognize, describe, and appreciate the diversity of living things in local and other ecosystems, and explore related careers.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can give	I am able to observe	I understand the diversity of	I can compare perspectives
examples of living	and document living	living things in local ecosystems	from various cultures to
things.	things in local	and can provide examples of	explain how living things
	habitats.	careers in this field.	are valuable.
	b) d)	a) c) f)	e)

DL6.2 Examine how humans organize understanding of the diversity of living things.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can sort living	I can compare	I understand how	I can explain why the scientific
things according to	classification systems	different classification	classification system is
my own criteria.	to describe how they	systems can be used to	preferred over an individual
a)	are similar or different.	classify living things.	classification system.
	b)	c) d) e) f) g)	h)

DL6.3 Analyze the characteristics and behaviours of vertebrates (i.e., mammals, birds, reptiles, amphibians, and fish) and invertebrates.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can give an example of a	I can identify common characteristics of	I can compare and represent characteristics	I can explain reasons why living things are classified
vertebrates and	vertebrates and	and behaviours of	from the internal structure
invertebrates.	invertebrates.	vertebrates and	instead of from their external
	a)	invertebrates.	appearance of behaviour.
		b) c)	d) e)

DL6.4 Examine and describe structures and behaviours that help:

- individual living organisms survive in their environments in the short term
- species of living organisms adapt to their environments in the long term.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I understand that	I can define and give	I can explain how	I can suggest reasons for why
animals adapt to	examples of structural	structural and	organisms are endangered or
their environments.	and behavioural	behavioural adaptations	extinct and why explanations
	adaptations.	help organisms survive.	might be different.
	a) c) d) i)	e) g) h)	f) j)

DL6.5 Assess effects of micro-organisms on past and present society, and contributions of science and technology to human understanding of micro-organisms.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can give an example of a microorganism.	I can define micro- organisms. a) b) c)	I understand the impact micro-organisms have made on society. e) g)	I can design, conduct, critique or discuss an investigation of how micro-organisms function. d) f)

SRPSD Grade 6 Science Rubrics

Physical Science: Understanding Electricity (EL)

EL6.1 Assess personal, societal, economic, and environmental impacts of electricity use in Saskatchewan and propose actions to reduce those impacts.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can list types of	I can describe how	I can explain how	I can propose actions to
energy sources.	electrical energy is	electrical energy impacts	address the environmental
a)	generated from a variety of	the people of	impacts of electrical
	sources.	Saskatchewan.	energy.
	a) b) c)	a) b) e) f)	d)

EL6.2 Investigate the characteristics and applications of static electric charges, conductors, insulators, switches, and electromagnetism.

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Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can describe the	I can describe the	I can explain the applications of	I can assess, reflect
characteristics of	physical properties of	static electric charges,	and make suggestions
static electric	conductors, insulators,	conductors, insulators,	for improving the
charges.	switches, and	switches, and	strength of an
a) b)	electromagnetism.	electromagnetism.	electromagnet.
	d) e) f) h) k) g)	c) i)	j)

EL6.3 Explain and model the properties of simple series and parallel circuits.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can state the	I can create and	I can model and explain	I can design, build and
characteristics needed to	describe simple	simple series and	troubleshoot an electrical
make a simple circuit.	circuits.	parallel circuits.	circuit.
a)	b) c)	e) g) f)	d) h) i)

Physical Science: Principles of Flight (FL)

FL6.1 Examine connections between human fascination with flight and technologies and careers based on the scientific principles of flight.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can ask questions	I can describe how nature	I can describe how flight	I can explain how flight
about flight.	has influenced our	has changed overtime.	affects the way we live.
	understanding of flight.	c) d) f)	g) h)
	a) b)		

FL6.2 Investigate how the forces of thrust, drag, lift, and gravity act on living things and constructed devices that fly through the air.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can list the principles of flight.	I can define the principles of flight.	I can use terminology appropriately when talking about flight. b) d)	I can compare and contrast how the principles of flight act on living things and man-made devices that fly through the air. e) f) h)

FL6.3 Design a working prototype of a flying object that meets specified performance criteria.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I understand the	I am able to design a	I am able to construct a	I can analyze my data to
criteria for creating	flying object to meet	working model of a flying	suggest improvements
my design.	specific criteria.	object to meet specific criteria.	and make changes.
	a) d)	f) b) c)	e) g) h) i)

SRPSD Grade 6 Science Rubrics

Earth and Space Science: Our Solar System (SS)

SS6.1 Research and represent the physical characteristics of the major components of the solar system, including the sun, planets, moons, asteroids, and comets.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can list some of the	I can list all the major	I can describe or model the	I can prove why the major
major parts of the	parts of the solar	physical characteristics of	parts of the solar system
solar system.	system.	the sun, planets, moons,	belong based on their
		asteroids, and comets.	physical characteristics.
		g)	h) i)

SS6.2 Assess the efficacy of various methods of representing and interpreting astronomical phenomena, including phases, eclipses, and seasons.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify	I can explain	I can explain the	I can extend my
astronomical	astronomical phenomena	effectiveness of using	understanding using any
phenomena like,	through a worldview	various methods to	worldview to investigate
phases, eclipses, and	such as scientific, First	show and understand	changes to astronomical
seasons.	Nations, or other	astronomical	phenomena.
	cultures.	phenomena.	i)

SS6.3 Evaluate past, current, and possible future contributions of space exploration programs including space probes and human spaceflight, which support living and working in the inner solar system.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I recognize space	I can describe the	I can explain inventions	I can design or investigate
exploration has	support needed for	and barriers to space	ways to support living within
changed overtime.	human spaceflight.	exploration.	the inner solar system.
a)	b) c)	d) e)	f) g)