

SRPSD Grade 1 Science Rubrics

Life Science: Needs and Characteristics of Living Things (LT)

LT1.1 Differentiate between living things according to observable characteristics, including appearance and behaviour.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify observable characteristics of both plants and animals. e)	I can describe observable characteristics of humans, and familiar animals. b) e)	I can compare, group, or differentiate plants and animals according to their observable characteristics. c) f) h) i)	I can compare/differentiate characteristics of plant and animals at their various stages of life. j) m)

LT1.2 Analyze different ways in which plants, animals, and humans interact with various natural and constructed environments to meet their basic needs.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can recognize a living thing and that it has needs. k)	I can identify the physical needs of a living thing and how the environment affects their needs. a) d)	I can explain and compare how plants, animals, or humans use their environment to meet their needs. e) f)	I can predict challenges living things face from the environment and ways of dealing with them. g) h) i) j)

Physical Science: Using Objects and Materials (OM)

OM1.1 Investigate observable characteristics and uses of natural and constructed objects and materials in their environment.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can tell the difference between man-made and natural objects. b)	I can describe the material used to make an object. f), c)	I can compare properties of natural and man-made objects. d) e) g) j)	I can apply what I know about natural and man-made objects to make predictions and decisions about their function and usefulness. g) h) i) l)

OM1.2 Examine methods of altering and combining materials to create objects that meet student- and/or teacher-specified criteria.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I know that I can alter an object to change its use.	I can alter an object for a specific purpose. b) e)	I can show how to combine and alter materials to create a new object. c) d) i)	I can design and construct an object that meets a specific function by selecting, altering, combining, and/or joining materials. f) g) h)

Physical Science: Using our Senses (SE)

SE1.1 Investigate characteristics of the five traditional external senses (i.e., sight, sound, smell, touch, and taste) in humans and animals.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can demonstrate an understanding of sight, sound, smell, touch, and taste. c)	I can identify the five senses and connect them to body parts. a)	I can describe characteristics of all five senses. d) e) f) g) h)	I can use one or more of the five senses to sort objects and materials. i)

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SE1.2 Explore how humans and animals use their senses to interact with their environment.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I know ways that humans and animals use their senses. a)	I can describe an object or environment using all my five senses. b) c)	I can explain and compare how humans and animals use their senses to interact with their environment. e) d) i) j)	I can predict how changes to the environment or senses affect humans and animals. f) g) h) k)

Earth and Space Science: Daily and Seasonal Changes (DS)

DS1.1 Compare and represent daily and seasonal changes of natural phenomena through observing, measuring, sequencing, and recording.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can identify the four seasons. b)	I can gather information about daily and seasonal changes in nature. c) e) f) g)	I can compare and represent daily and seasonal changes in nature. d)	I can predict daily and seasonal patterns in nature. h)

DS1.2 Inquire into the ways in which plants, animals, and humans adapt to daily and seasonal changes by changing their appearance, behaviour, and/or location.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can ask a question about how seasonal or daily changes might affect a living thing. a)	I can observe and record the effects of daily and seasonal changes on living things. c) d)	I can explain the effects of daily and seasonal changes on living things. e) f) g) i)	I can predict the effects of daily and seasonal changes on living things. b) H)