

Grade 3 - Science

AREA OF ASSESSMENT: Accurately collects, records, and analyzes data			
Rubric	Trimester 1	Trimester 2	Trimester 3
4	Independently and consistently writes a clear claim that is fully supported with multiple pieces of evidence and scientific reasoning. Independently and consistently uses complex reasoning and demonstrates understanding of patterns, data, and cause and effect, with evidence or models.	Independently and consistently writes a clear claim that is fully supported with multiple pieces of evidence and scientific reasoning. Independently and consistently uses complex reasoning and demonstrates understanding of patterns, data, and cause and effect, with evidence or models.	Independently and consistently writes a clear claim that is fully supported with multiple pieces of evidence and scientific reasoning. Independently and consistently uses complex reasoning and demonstrates understanding of patterns, data, and cause and effect, with evidence or models.
3	Independently writes a claim that is supported with relevant evidence and/or scientific reasoning. Independently uses reasoning to demonstrate understanding of patterns, data, cause and effect with evidence or models.	Independently writes a claim that is supported with relevant evidence and/or scientific reasoning. Independently uses reasoning to demonstrate understanding of patterns, data, cause and effect with evidence or models.	Independently writes a claim that is supported with relevant evidence and/or scientific reasoning. Independently uses reasoning to demonstrate understanding of patterns, data, cause and effect with evidence or models.
2	With guidance and support, attempts to write a claim. With guidance and support, may use reasoning to demonstrate some understanding of patterns, data, and cause and effect with evidence or models.	With guidance and support, attempts to write a claim. With guidance and support, may use reasoning to demonstrate some understanding of patterns, data, and cause and effect with evidence or models.	With guidance and support, attempts to write a claim. With guidance and support, may use reasoning to demonstrate some understanding of patterns, data, and cause and effect with evidence or models.
1	With significant guidance and support, may be able to write a claim With significant guidance and support, may be able to recognize patterns and cause and effect with evidence or models.	With significant guidance and support, may be able to write a claim. With significant guidance and support, may be able to recognize patterns and cause and effect with evidence or models.	With significant guidance and support, may be able to write a claim. With significant guidance and support, may be able to recognize patterns and cause and effect with evidence or models.

Trimester 1: Forces and Interactions

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Key Concepts: Each force acts on one particular object and has both strength and directions.(3-PS2-1) The patterns of an object's motion can be observed and measured to exhibit a pattern.(3-PS2-2) Electric and magnetic forces between objects do not require the objects to be in contact.(3-PS2-3;4)

Vocabulary: Attract; Balanced Forces; Force; Friction; Gravity; Repel; Unbalanced Forces

Trimester 2: Interdependent Relationships and Ecosystems

Key Concepts: When the environment changes in ways that affect a place's characteristics, temperature, or availability of resources, some organisms survive and reproduce, others move to new locations, and some die.(3-LS4-4) Being part of a group helps some animals obtain food, defend themselves and survive. (3-LS2-1) Some kinds of plants and animals that once lived on Earth are no longer found anywhere. (3-LS4-1) Fossils provide evidence about the types of organisms that lived long ago and also about their environments.(3-LS4-1) Some kinds of organisms survive well, some survive less well, and others cannot survive at all.(3-LS4-3)

Vocabulary: fossil, systems, organism, and habitat.

Trimester 2: Weather and Climate

Key Concepts: Scientists record patterns of the weather so they can make predictions about what kind of weather might happen next.(3-ESS2-1) Climate describes a range of an area's typical weather conditions and the extent to which those conditions vary over years.(3-Ess2-2) Earth's processes continuously cycle water, contributing to weather and climate.(3-ESS2-3) A variety of natural hazards result from natural processes. Humans cannot eliminate natural hazards but can take steps to reduce their impacts.(3-ESS3-1)

Vocabulary: meteorologist; climate; accumulation; weather; condensation; Seasonal; evaporation; precipitation; moisture; flood-prone; severe; region

Trimester 3: Growth and Development of Organisms

Key Concepts: Reproduction is essential to the continued existence of every kind of organism. Plants and animals have unique and diverse life cycles.(3-LS1-1) Many characteristics of organisms are inherited from their parents.(3-LS3-1) Other characteristics result from individuals' interactions with their environment.(3-LS3-2) Some characteristics result from the interactions of both inheritance and the effect of the environment.(3-LS3-2) Sometimes the differences in characteristics between individuals of the same species provide advantages in surviving, finding mates, and reproducing.(3-LS4-2)

Vocabulary: Camouflage; Exoskeleton; Frass; Inheritance; lineage; Molt; offspring; Organism; Population; Species; Trait; Variation

Independently and consistently: After instruction introducing a topic, the student has a concrete understanding and can apply skills taught.

Independently: After instruction introducing a topic, the child can complete most work with minimal teacher support.

Guidance and Support: After instruction introducing a topic, the child requires frequent check-ins from classroom teacher to support work completion and comprehension.

Significant guidance and support: After instruction introducing a topic, the child requires small group or 1:1 assistance with teacher scaffolding and tools (graphic organizers, manipulatives, sentence starters, tables, etc.)