Content Area: Science Standard: Earth Systems Science

Prepared Graduates:

> Describe how humans are dependent on the diversity of resources provided by Earth and Sun

Grade Level Expectation: First Grade

Concepts and skills students master:

1. Earth's materials can be compared and classified based on their properties

Evidence Outcomes		21 st Century Skills and Readiness Competencies		
Students can:		Inquiry Questions:		
a.	Identify and represent similarities and	 How are various materials on Earth similar and different? 		
	differences such as the texture, size,	 How do the properties of various materials on Earth affect the way we can use 		
	color, and shape of various materials	them?		
	on Earth	 How does soil differ from different places? 		
b.	Sort, group, and classify Earth's	Relevance and Application:		
	materials based on observations and	Humans use natural resources in our daily lives and in a variety of ways. For		
	explorations	example, wood for building and furniture.		
с.	Make predictions about how a material	• There are limits on resources and materials extracted from the natural environment.		
	on Earth might be useful based on its			
	properties			
d.	Communicate ideas about the			
	differences between soils from			
	different places			
e.	Use a variety of tools to observe,	Nature of Science:		
	analyze, record, and compare Earth's	 The same materials can be sorted in a number of ways based on different 		
_	materials	characteristics.		
f.	Analyze the impact of reducing,	 Scientists make predictions based on what they know. 		
	reusing, and recycling various			
	materials			

Content Area: Science Standard: Life Science

Prepared Graduates:

Analyze how various organisms grow, develop, and differentiate during their lifetimes based on an interplay between genetics and their environment

Grade Level Expectation: First Grade

Concepts and skills students master:

1. Offspring have characteristics that are similar to but not exactly like their parents' characteristics

Evidence Outcomes		21 st	Century Skills and Readiness Competencies
Students can:		Inqu	iry Questions:
а.	Use evidence to analyze similarities	•	How are you like your parents?
	and differences between parents and	•	In what ways do offspring resemble their parents?
	offspring in a variety of organisms		
	including both plants and animals		
b.	Analyze and interpret data regarding		
	the <mark>similarities</mark> and differences		
	between parents and offspring	Rele	vance and Application:
с.	Question peers about evidence used in	•	Diversity – or variation – exists within populations of living organisms.
	developing ideas about similarities and	٠	Family photographs often reveal similar physical traits.
	differences between parents and	•	Parents eye color can be different their child's.
	offspring		
d.	Interpret information represented in		
	pictures, illustrations, and simple		
	charts		
		Nati	ura of Sciences
		Nati	Ife of Science:
		•	their work
		-	Question poors about the ovidence used in developing their ideas about the
		•	similarities and differences between parents and efferring
			similarities and differences between parents and onspring.

Content Area: Science Standard: Life Science

Prepared Graduates:

Analyze the relationship between structure and function in living systems at a variety of organizational levels, and recognize living systems' dependence on natural selection

Grade Level Expectation: First Grade

Concepts and skills students master:

2. An organism is a living thing that has physical characteristics to help it survive

Evidence Outcomes	21 st Century Skills and Readiness Competencies
 Students can: a. Identify organisms and use evidence based scientific explanations for classifying them into groups b. Analyze and interpret data about the needs of plants and animals c. Use direct observations and other evidence to support ideas concerning physical characteristics that help 	 Inquiry Questions: How do the needs of plants and animals differ? What helps a specific plant or animal survive?
plants and animals survive	 Relevance and Application: Animals and plants have characteristics that help them survive in the local environment. For example, the thick fur of animals such as raccoons, bears, and mule deer helps them survive the cold winters in Colorado. A living thing can be harmed if needed resources are lacking.
	 Nature of Science: Ask testable questions about the needs of an organism. Predict the outcome for an organism if a need is removed.