Unit F: Diversity and Evolution of Living Things

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How is the scientific theory of evolution supported and explained?	
STANDARDS:	
SC.7.L.15.1 Recognize that fossil evidence is consistent with the theory that living	g things evolved from earlier species.
SC.7.L.15.2 Recognize and explain ways in which genetic variation and environment	nental factors contribute to evolution by natural selection and diversity of organism
SC.7.L.15.3 Relate how the inability of a species to adapt within a changing envir	ronment may contribute to the extinction of that species.
The scientific theory of evolution is supported by fossil evidence. Natural s	selection, along with genetic variation, are primary mechanisms leading to change over time in
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KNOW Fossil evidence supports the scientific theory of evolution that organisms evolved from earlier species. Genetic variations and environmental factors contribute to evolution by	DO Make observations of fossil samples in varying layers of earth.
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environment over time.

CONCEPT: Theory of Evolution

Inability of a species to adapt within an environment can contribute to

the extinction of that species.

Driving Question

SC.7.L.15.1. Recognize that fossil evidence is consistent with the theory that living things evolved from earlier species.	How do fossils provide evidence of the theory of evolution?
Examine various rocks with fossils in them. Determine the type of rock it is (e.g., sedimentary, metamorphic, or igneous) and the process by which it was formed. Then determine the type of organism it is. From this information research similar organisms today. Describe changes of an organism over time.	
VOCAB: fossils, evolution (scientific theory of evolution), genetic variation, species	

CONCEPT: Diversity	of C)rganisms	&	Natural	Selection
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Driving Question

SC.7.L.15.2 Recognize and explain ways in which genetic varie	ation How does natural selection and environmental factors affect the diversity of
and environmental factors contribute to evolution by natural s	relection living things?
and diversity of organisms.	
VOCAB: natural selection, diversity	
CONCEPT: Species Adaptation	Driving Question

SC.7.L.15.3. Relate how the inability of a species to adapt within a changing environment may contribute to the extinction of that species.

What is the result of the ability or inability of a species to adapt to a changing environment?

Explain the cause and effect relationship of the extinction of a species and environmental changes

VOCAB: adaptation, extinction

4	In addition to displaying a 3.0 performance, the student must demonstrate in-depth inferences and applications that go beyond what was taught within these standards. Examples:			
	Discuss the clues scientists use to learn about Earth's history. Answer the following questions in your discussion: What are original remains? What are three ways in which original remains may be preserved?			
3	Explain the types of fossils and the processes by which they are formed. Use fossil evidence to make inferences about changes on Earth and in its environment. Recognize or recall accurate statements about the types of fossils and the processes by which they are formed.			
2	Recognize or recall examples of fossils specific to periods of change in the Earth and the environment. Identify examples of changes of an organism over time. Identify the cause and effect relationship of the extinction of a species and environmental changes			
1	With help, partial success at 2.0 content but not at score 3.0 content			