

Options FRMS Science 7B-OR		Scope and Sequence
Unit	Lesson	Objectives
Earth's Changing Interior		
Earth's Interior		
		Explain how geologists learn about Earth's interior.
		Compare and contrast the three main layers of Earth.
Continental Drift		
		Explain continental drift.
		Describe evidence that supports continental drift.
Plate Tectonics		
		Explain the theory of plate tectonics.
		Identify the major tectonic plates.
		Distinguish the three types of plate boundaries.
		Relate plate tectonics to the formation of landforms.
Forces in Earth's Crust		
		Explain how stress in the crust affects Earth's surface.
		Explain why faults form in particular areas.
		Identify land features that result from plate movement.
Lab: Plate Boundaries and Movement		
		Differentiate between the major types of plate boundaries.
		Describe the role of mantle convection in plate movement.
		Examine how plate movements cause changes in Earth's surface.
		Compare and contrast the plate movements that cause earthquakes and volcanic eruptions.
Earthquakes		

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		Describe the causes of an earthquake.
		Explain how the energy of an earthquake travels.
		Describe methods used to measure earthquakes.
		Explain how geologists locate the epicenter of an earthquake.
	Volcanoes	
		Identify the reasons why Earth's volcanic regions are located in certain areas.
		Explain what happens when a volcano erupts.
		Distinguish the two types of volcanic eruption.
		Describe the three stages of volcanic activity.
		Explain how volcanoes create various landforms.
	Unit Test	
	<b>Climate Change</b>	
	Environmental Changes	
		Identify examples of short-term and long-term environmental changes.
		Identify the impacts of short-term and long-term environmental changes on organisms and ecosystems.
		Predict how environmental changes will affect organisms and ecosystems.
	Erosion and Deposition	
		Describe erosion and deposition.
		Differentiate types of mass movement.
	Lab: Modeling Water Erosion	
		Identify factors that affect erosion and deposition by rivers.
		Model stream processes and observe stream behavior.

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	Natural Environmental Change	
		Identify examples of natural short-term environmental changes.
		Identify examples of natural long-term environmental changes.
		Assess the impact of natural environmental changes on organisms, populations, and species.
	Test	
<b>Organisms and the Environment</b>		
	Spheres of Earth	
		Distinguish the four major parts of the Earth system.
		Explain how Earth's four spheres interact.
	Living Things and the Environment	
		Differentiate between a habitat and a niche.
		Examine biotic and abiotic factors in the environment.
		Identify the levels of organization within an ecosystem.
	Cycles of Matter	
		Examine how carbon cycles through an ecosystem.
		Analyze the importance of the nitrogen cycle.
		Identify the processes involved in the water cycle.
	Interactions among Living Things	
		Differentiate competition, predation, and cooperation.
		Distinguish among the three types of symbiotic relationships.
	Lab: Owl Pellets	
		Dissect an owl pellet and examine the contents.

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		Identify an owl's prey based on the contents of an owl pellet.
	Energy Flow in Ecosystems	
		Explain the roles of producers, consumers, and decomposers in an ecosystem.
		Identify producers, consumers, and decomposers in food chains and food webs.
		Examine the movement of energy through an ecosystem in food chains and food webs.
		Analyze the transfer of energy through the trophic levels in an energy pyramid.
	Populations	
		Identify factors that affect population size.
		Identify limiting factors that affect a population in a given environment.
	Unit Test	
<b>Natural and Artificial Environmental Change</b>		
	Succession	
		Compare primary and secondary succession.
		Contrast pioneer species and climax community.
	Lab: Ecological Succession	
		Explore the process of ecological succession in a microhabitat.
		Conduct a controlled experiment to test a hypothesis.
		Recognize sampling methods commonly used in ecology.
	Human Impact on the Environment	
		Identify examples of short-term human-induced environmental changes.
		Identify examples of long-term human-induced environmental changes.
		Assess the impact of human-induced environmental changes on organisms, populations, and species.

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	Biodiversity	
		Identify how biodiversity contributes to the sustainability of an ecosystem.
		Identify the factors that affect biodiversity.
		Identify some factors that can threaten biodiversity.
		Examine ways to protect biodiversity.
	Climate Change	
		Identify events that can cause short-term and global climate change.
		Explain how human, biologic, and geologic activities can influence climate.
	Unit Test	
<b>Earth's Energy Resources</b>		
	Energy on Earth	
		Distinguish between renewable and nonrenewable resources.
		Identify renewable and nonrenewable resources.
		Identify advantages and disadvantages of various energy sources.
	Land Resources	
		Describe land as a natural resource.
		Explain how land resources are managed.
	Air Resources	
		Describe the atmosphere as a natural resource.
		Describe the importance of clean air.
	Water Resources	
		Describe the importance of water.

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		Explain how Earth's water is distributed and used.
		Explain how water resources are managed.
	Unit Test	
Cumulative Exam		
	Cumulative Exam Review	
	Cumulative Exam	