

Virginia Standards of Learning correlated to
Reading Essentials in Science
Perfection Learning Corporation

Earth Science	Standard of Learning	Acids and Bases	Atoms, Molecules, and Compounds	Chemical Energy	Chemical Reactions	Mixtures and Solutions	Global Warming	Habitat Destruction	Energy Sources	Keeping Our Food and Water Safe	Waste and Consumption
	ES.2 The student will demonstrate scientific reasoning and logic.	X	X	X	X	X					
	ES.3 The student will investigate and understand how to read and interpret maps, globes, models, charts, and imagery.										
	ES.4 The student will investigate and understand the characteristics of the Earth and the solar system.										
	ES.5 The student will investigate and understand how to identify major rock-forming and ore minerals based on physical and chemical properties.										
	ES.6 The student will investigate and understand the rock cycle as it relates to the origin and transformation of rock types and how to identify common rock types based on mineral composition and textures.										
	ES.7 The student will investigate and understand the differences between renewable and nonrenewable resources.								X		X

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Earth Science	Standard of Learning	Earthquakes	Floods	Tornadoes	Hurricanes	Volcanoes	Erosion	Forecasting	Natural Disasters	Records and Oddities	Seasons and Patterns	Are We Alone? The Case for Extraterrestrial Life	Inside a Star	Lights in the Sky	Mysteries in Space: Cosmic Puzzles	Telescopes: Exploring the Beyond
ES.8	The student will investigate and understand geologic processes including plate tectonics.	X				X	X									
ES.9	The student will investigate and understand how freshwater resources are influenced by geologic processes and the activities of humans.															
ES.10	The student will investigate and understand that many aspects of the history and evolution of the Earth and life can be inferred by studying rocks and fossils.															
ES.11	The student will investigate and understand that oceans are complex, interactive physical, chemical, and biological systems and are subject to long- and short-term variations.															
ES.12	The student will investigate and understand the origin and evolution of the atmosphere and the interrelationship of geologic processes, biologic processes, and human activities on its composition and dynamics.															

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ES.13	The student will investigate and understand that energy transfer between the sun and the Earth and its atmosphere drives weather and climate on Earth.		X	X	X			X	X	X	X					
ES.14	The student will investigate and understand scientific concepts related to the origin and evolution of the universe.												X	X	X	X

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Earth Science	Standard of Learning	Fossils	Geologic Time	Rocks and Minerals	Sedimentary Rocks	The Water Cycle	Deserts	Mountains	Oceans	Rivers	Tropical Rain Forests	Classifying Plants and Animals	Food Chains and Webs	How Plants Grow	Life Cycles of Plants and Animals	Under a Microscope
ES.13	The student will investigate and understand that energy transfer between the sun and the Earth and its atmosphere drives weather and climate on Earth.															
ES.14	The student will investigate and understand scientific concepts related to the origin and evolution of the universe.		X													