



Earth vol. 2

Grade Level: Kindergarten

Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
The Nature of Science and Engineering The Practice of Science	Scientific inquiry...pose questions and investigate phenomena.	0.1.1.2.1	Use observations to develop an accurate description of a natural phenomenon and compare one's observations and descriptions with those of others.	Ch. 2 Experiment: Glacier PixWriter: Write About Glacier Ch. 3 Experiment: Making an Earthquake PixWriter: Making Predictions PixWriter: Write About Earthquake
Life Science Interdependence in Living Systems	Natural systems have many components that interact to maintain the living system	0.4.2.1.1	Observe a natural system or its model and identify living and nonliving components in that system.	Ch. 2 Activity: Field Trip to Aquarium PixWriter: Write About Aquarium





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Grade Level: First

Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
The Nature of Science and Engineering The Practice of Science	Scientists work as individuals and groups to investigate...evidence and communication with others.	1.1.1.1.1	When asked "How do you know?", students support their answer with observations.	Ch. 2 Experiment: Desert Cactus PixWriter: Observe Cactus Ch. 3 Project: Quake Predictions PixWriter: Write About Earthquake Ch. 4 Experiment: Causing Erosion Ch. 5 Experiment: Making a Volcano PixWriter: Volcano Sequence
		1.1.1.1.2	Recognize that describing things as accurately as possible is important....	Ch. 2 PixWriter: Observe Cactus Ch. 3 PixWriter: Write About Earthquake Ch. 4 PixWriter: Write About Erosion Ch. 5 PixWriter: Volcano Sequence
Earth and Space Science Earth Structure and Processes	Earth materials ... have different observable physical properties that make them useful.	1.3.1.3.3	Identify and describe large and small objects made of Earth materials.	Ch. 2 Lesson: "The Surface of the Earth" Easy Reader: <u>Beautiful Earth</u> PixWriter: Surface Chapter Retell PixWriter: Easy Surface Retell





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Grade Level: Second

Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
The Nature of Science and Engineering The Practice of Science	Scientific inquiry.... used to pose questions bout the natural work and investigate phenomena.	2.1.1.2.1	Raise questions...and seek answers by making careful observations... and sharing with others.	Ch. 1 Project: Core Sample PixWriter: My Core Sample Ch. 4 Experiment: Beach Erosion PixWriter: Beach Experiment Ch. 5 Activity: Up and Down





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Grade Level: Third

Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
The Nature of Science and Engineering The Practice of Science	Scientific inquiry... used to pose questions...and investigate phenomena.	3.1.1.2.3 3.1.1.2.4	Maintain a record of observations, procedures, and explanations.....	Ch. 2 Activity: Trip to the Aquarium Experiment: Desert Cactus PixWriter: Write Observe Cactus Project: Glaciers Change PixWrite: Glacier Retell Ch. 4 Activity: Erosion Field Trip PixWriter: Write About Erosion Ch. 5 Experiment: Sediment PixWriter: Write Sediment Experiment
The Nature of Science and Engineering Interactions Among Science ... and Society	Men and women throughout history...have been involved in engineering design and scientific inquiry.	3.1.3.2.2	Recognize that the practice of science and/or engineering involves many different kinds of work and engages men and women of all ages and backgrounds.	Ch. 1 Lesson: "Inside the Earth" PixWriter: Core Chapter Retell Ch. 3 Lesson: "Shake, Rattle and Roll" PixWriter: Earthquake Chapter Retell





Grade Level: Fourth

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Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
There were no Standards applicable for Earth volume 2 (Physical Science) at the Fourth Grade Level.				





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Grade Level: Fifth

Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
The Nature of Science and Engineering The Practice of Science	Science is a way of knowing about the natural world.....	5.1.1.1.4	Understand that different models can be used to represent natural phenomena and these models have limitations about what they can explain.	Ch. 3 Project: Making an Earthquake Project: Making Predictions PixWriter: Write About Earthquake Easy Reader: Earthquake! Ch. 5 Project: Making a Volcano PixWriter: Volcano Sequence
Earth and Space Science Earth Structure and Processes	The surface of the Earth changes. Some changes are due to slow processes and some changes are due to rapid processes.	5.3.1.2.1	Explain how, over time, rocks weather and combine with organic matter to form soil.	Ch. 4 Lesson: "Wearing Down the Earth" PixWriter: Retell Erosion Chapter Easy Reader: Erosion & Weathering PixWriter: Easy Erosion Retell Experiment: Beach Erosion PixWriter: Write Beach Experiment
		5.3.1.2.2	Explain how slow processes, such as water erosion, and rapid processes such as landslides and volcanic eruptions form features of the Earth's surface.	Ch. 4 Lesson: "Wearing Down the Earth" PixWriter: Retell Erosion Chapter Easy Reader: Erosion & Weathering PixWriter: Easy Erosion Retell Experiment: Beach Erosion PixWriter: Write Beach Experiment Project: Causing Erosion Experiment: Marble Erosion PixWriter: Chemical Erosion Ch. 5 Lesson: "Building Up of Earth" PixWriter: Volcano Chapter Retell Easy Reader: Volcanoes PixWriter: Easy Volcanoes Retell Project: Making a Volcano PixWriter: Volcano Sequence Experiment: Sediment PixWriter: Sediment Experiment Activity: Making Mountains PixWriter: Made Mountain





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Grade Level: Sixth

Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
The Nature of Science and Engineering Interactions Among Science...and Society	Current and emerging technologies ... understand and communicate how.... systems work and interact.	6.1.3.4.1	...use appropriate safe procedures, tools, measurements, graphs... to describe and investigate ... systems in a physical science context.	Ch. 4 Experiment: Marble Erosion PixWriter: Chemical Erosion
Physical Science Matter	Substances can undergo physical changes which do not change the composition or the total mass of the substance in a closed system.	6.2.1.2.1	Identify evidence of physical changes, including changing phase or shape and dissolving in other materials.	Ch. 4 Experiment: Marble Erosion PixWriter: Chemical Erosion





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Grade Level: Seventh

Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
The Nature of Science and Engineering The Practice of Science	Scientific inquiry uses multiple interrelated processes to investigate questions and propose explanations about the natural world.	7.1.1.2.2	Plan and conduct a controlled experiment to test a hypothesis about a relationship between two variables....	Ch. 2 Experiment: Desert Cactus PixWriter: Observe Cactus Ch. 4 Experiment: Marble Erosion PixWriter: Chemical Erosion Ch. 5 Experiment: Sediment PixWriter: Sediment Experiment
		7.1.1.2.3	Generate a scientific conclusion from an investigation....	Ch. 2 PixWriter: Observe Cactus Ch. 4 PixWriter: Chemical Erosion Ch. 5 PixWriter: Sediment Experiment





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Grade Level: Eighth

Strand and Substrand	Standard	Code	Benchmark	Earth vol. 2 Correspondence
Physical Science Matter	Pure substances can be identified by properties which are independent of the sample....	8.2.1.1.1	Distinguish between a mixture and a pure substance and use physical properties including color, solubility....to separate mixtures....	Ch. 5 Experiment: Sediment PixWriter: Sediment Experiment
	Substances can undergo physical and/or chemical changes....	8.2.1.2.1	Identify evidence of chemical changes....	Ch. 4 Experiment: Marble Erosion PixWriter: Chemical Erosion
		8.2.1.2.2	Distinguish between chemical and physical changes in matter.	Ch. 4 Experiment: Marble Erosion PixWriter: Chemical Erosion (Use with activity in Earth vol. 1)
Physical Science Energy	Waves involve the transfer of energy without the transfer of matter.	8.2.3.1.1	Explain how seismic waves transfer energy through the Earth and across surfaces.	Ch. 3 Lesson: "Shake, Rattle and Roll" PixWriter: Earthquake Chap. Retell Easy Reader: Earthquakes! PixWriter: Easy Earthquake Retell
Earth and Space Science Earth Structure and Processes	The movement of tectonic plates results from interaction among the lithosphere, mantle and core.	8.3.1.1.1	Recognize that the Earth is composed of layers, describe the properties.....	Ch. 1 Lesson: "Inside the Earth" PixWriter: Core Chapter Retell Activity: Diagram of Earth's Core Project: Clay Model PixWriter: Model Sequence Project: Core Sample PixWriter: My Core Sample Easy Reader: Core Cookies
		8.3.1.1.2	...ocean trenches... mountain ranges to volcanic ... activity.	Ch. 2 Lesson: "The Surface of the Earth"
		8.3.1.1.3	Recognize that major geological events ... result from slow movement of tectonic plates.	Ch. 3 Lesson: "Shake, Rattle and Roll" PixWriter: Earthquake Chap. Retell Project: Make an Earthquake Ch. 5 Lesson: "Building Up of Earth" PixWriter: Volcano Chapter Retell Project: Making Mountains
	Landforms are the result of the combination of constructive and destructive processes	8.3.1.2.1	Explain how landforms result....	Ch. 4 Lesson: "Wearing Down of the Earth" PixWriter: Erosion Chapter Retell Easy Reader: Erosion & Weathering Experiment: Beach Erosion Ch. 5 Lesson: "Shake, Rattle and Roll"

