

	Week	Unit	Topics by week	Lab or simulation	
Quarter 1	1	Unit 1: Earth's Materials	Chapter 1: Introduction to Earth Science	Separation and Density, p.4; Earth's Layers p.8	
	2		Chapter 2: Minerals	Mineral Identification p.58; Crystallization of Sulfur p.45	
	3 - 4		Chapter 3: Rocks	Observing Some of the Effects of Pressure on Mineral Grains p.83; Rock Identification p.86; Build Science Skills p.76 (sediments settling)	
	5 - 6		Chapter 4: Earth's Resources	Model an Oil Trap p.96; Model Solar Oven p.103; Modeling Hydroelectric Power p.105; Making an Oil Slick p.114	
	7 - 8	Unit 3: Forces Within	Chapter 8: Earthquakes and Earth's Interior	Earthquake Safe Building p.217	
	9		Chapter 9: Plate Tectonics	Jigsaw Puzzle Mt. Chain Model p.250; Model Seafloor Spreading p.257; Hard-boiled Egg Analogy p.261; Creating a Continental Rift p.264; Graham Cracker Plate Tectonics Lab	
Fall Break					
Quarter 2	10	Unit 3: Forces Within	Chapter 9: Plate Tectonics	Jigsaw Puzzle Mt. Chain Model p.250; Model Seafloor Spreading p.257; Hard-boiled Egg Analogy p.261; Creating a Continental Rift p.264; Graham Cracker Plate Tectonics Lab	
	11-12		Chapter 10: Volcanoes and Other Igneous Activity	Explosive Volcanoes p.287; Observing Viscosity p.288; Observing an Explosive Eruption p.291;	
	13	Unit 4: Historical Geology	Chapter 12: Geologic Time	What Can Become a Fossil p.335; Model Mold and Cast Fossils p.344; Radioactive Decay Lab	
	14		Chapter 13: Earth's History	Modeling the Geologic Time Scale p.386	
	15	Unit 5: Oceanography	Chapter 14: The Ocean Floor	Particle Size Affects Settling Rates p.393; Evaporative Salts p.412; Modeling Seafloor Depth p.414	
	16		Chapter 15: Ocean Water and Ocean Life	Salinity Affects Density p.421; Temperature Affects Density p.440	
	17		Chapter 16: The Dynamic Ocean	How Do Ocean Waves Form p.447; Creating Density Currents p.451;	
Winter Break					
Quarter 3	1	Unit 6: Meteorology	Chapter 17: Earth's Atmosphere	Modeling the Angle of the Sun p.475; Heating Land and Water p.496	
	2		Chapter 18: Moisture, Clouds, and Precipitation	What Causes Condensation? p.503; Measuring Humidity p.524; Water From Plants p.507; Hair Hygrometer p.508; Compression and Expansion p.511; Making a Cloud p.515; Making Hail p.522	
	3		Chapter 19: Air Pressure and Wind	Measuring the Mass of Air p.532; Warm Air Rises p.538;	
	4		Chapter 20: Weather Patterns and Severe Storms	Model a Tornado p.557; Air Masses in a Bottle p. 559; Homemade Tornado p.573	
	5		Chapter 21: Climate	Modeling Humid Climates p.596	
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	Spring Break				
	Quarter 4	11	Unit 7: Astronomy	Chapter 22: Origin of Modern Astronomy	How Do Impact Craters Form? p.613; Modeling Synodic and Sidereal Months p.636; Visualizing Planetary Orbits p.618; A Simple Mirror Telescope p.620; Modeling the Lunar Surface p.632
12		Chapter 23: Touring Our Solar System		Modeling the Solar System p.666; Launch a Rocket	
13		Chapter 24: Studying the Sun		Tracking Sunspots p.692; Making a Simple Spectrometer p.676; Making a Simple Refracting Telescope p.679; Model Fluids Travel at Different Rates p.687	
14		Chapter 25 Beyond Our Solar System		Constellations Locate Stars p.723; Binary Star Motion p.701; Apparent and Absolute Magnitude p.703; Modeling a Pulsar p.713; Model Galaxies p.717; Stretching Light Waves p.718	
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