

Scope and Sequence 16-17		7th Grade Science- 1st Trimester- Earth Science	
Week	Standards	Instructional Content	Assessments
1		Classroom Expectations, Procedures, Safety	Class protocols, safety procedures, NB setup, Scientific Thinking Activity
2	SEPS.1 (Posing questions) SEPS.2 Developing and Using Models and Tools	Scientific Thinking, Observation, Inference, Prediction; measurement <i>(HONORS: measurement includes extended information about metric prefixes, conversions, and scientific notation)</i>	Binder organization, Scientific Thinking, Observation, Inference, Prediction; measurement activity and reinforcement
3	SEPS.1 (Posing questions) SEPS.2 Developing and Using Models and Tools SEPS.3 Constructing and Performing Investigations	Scientific Method <i>(HONORS: differentiated for advanced work with hypotheses and variables)</i>	Design soil experiment- Identify variables, observe and measure, compare and contrast soils for effectiveness on plant growth. Soil Info: Act 3 observing soil, Act 4 soil columns; concept map-soil composition
4	7.ESS.1 (minerals): 6-8 LST.2: Key Ideas and Textual Support: 6-8 LST.4 Synthesis and Connection of Ideas: 6-8LST.2.3 Follow procedures: 6-8LST.3 Structural Elements in reading	Mineral Properties and Identification	SEPUP Rock and Mineral Activities: 15: Mineral Properties 16:Mineral Identification <i>(HONORS differentiation: Less scaffolding for writing prompts and concept mapping)</i>
5	7.ESS. 1 (minerals, rocks) 6-8LST.1 Read independently... 8LST2. Key ideas..and Support 6-8 LST.3 Structural Elements	Rock Formation	SEPUP Rocks and Minerals: Activity 18-Every Rock Tells a Story-article only, Activity 19: Rock Formation,
6	7.ESS.1 (rocks, rock cycle) SEPS.(3,4,7,8) parts of Science and Engineering Process Standards 6-8LST.3 Follow procedure	Rock types, characteristics, transformation and rock cycle	20: Identifying Rock Types, 22: Rock Cycle PH Testing Rock Flooring <i>(HONORS differentiation: Less scaffolding for engineering design)</i>
7	7. ESS. 5 Earth Layers SEPS.2 (Models) 6-8 LST.2 Key ideas.. 6-8 LST.3.1 Meaning..in technical context MATH: Proportions and Scale	Inside Earth and Earth's Magnetic Field	Unit D: Plate Tectonics Activity 38: Beneath the Earth's Surface. Clay Model Prentice Hall Earth's magnetic field.
8	7.ESS.3 (Continental drift and plate tectonics) SEPS.2 Developing and using models and tools	Plate Tectonics- Continental Drift/Theory of Plate Tectonics- Evidence	Activity 40: The Continent Puzzle, 41/42 Continental Drift and The Theory of Plate Tectonics. 44: Mapping Plates <i>(HONORS: For weeks 8-10, includes research paper about earthquakes or volcanoes)</i>
9	7.ESS.3 (Continental drift and plate tectonics) SEPS. 2 (Models) 6-8 LST.4 Synthesis and Connection of Ideas	Plate Tectonics- plate movement, Convection Currents	45: Understanding Plate Boundaries, 46: Convection Currents <i>(HONORS: includes excerpts of original research papers for analysis )</i>
10	7.ESS.3 (Continental drift and plate tectonics) SEPS. 2 (Models) 6-8 LST.4 Synthesis and Connection of Ideas	Plate Tectonics- resulting landforms	47: Spreading Plates, 48: Other types of plate motion,
11	6-8.E. (1-4) Engineering SEPS (1-8) Science and Engineering Process Standards	STEM project- Earthquake resistant building	Introduction to Engineering Design Process (STEM Project on Earthquake resistant structures)
12	7.ESS.7 (Natural Resources) 8LST 7: Research Process	Energy resources for Indiana	Use NEED (Department of Energy) resources + others to prepare and present an energy resource; evaluate several in terms of benefits and tradeoffs <i>(HONORS Differentiation: readings selected are higher lexile)</i>
13		Final Exam Preparation	Review of Scientific Method and Thinking, measurement, rocks, rock cycle, plate tectonics, STEM design process, Energy sources