

2021-2022 Themes in Earth Science - Pacing Guide

Earth Science is the study of any of various sciences, as geology, astronomy, or meteorology, that deal with the earth, its composition, or any of its changing aspects. In this course students will explore and answer **some** of the following questions as they learn about key ideas in earth science:

- What is Earth's place in the Universe? What makes up our solar system and how can the motion of the Earth, moon and sun explain seasons and eclipses?
- How do people figure out that the Earth and life on Earth have changed through time?"
- How do the materials in and on Earth's crust change over time, How does the movement of tectonic plates impact the surface of Earth, How does water influence weather, circulate in the oceans, and shape Earth's surface, What factors interact and influence weather, and How have living organisms changed the Earth and how have Earth's changing conditions impacted living organisms?

* We do not have a reference text for this course. Materials will be provided through Schoology.

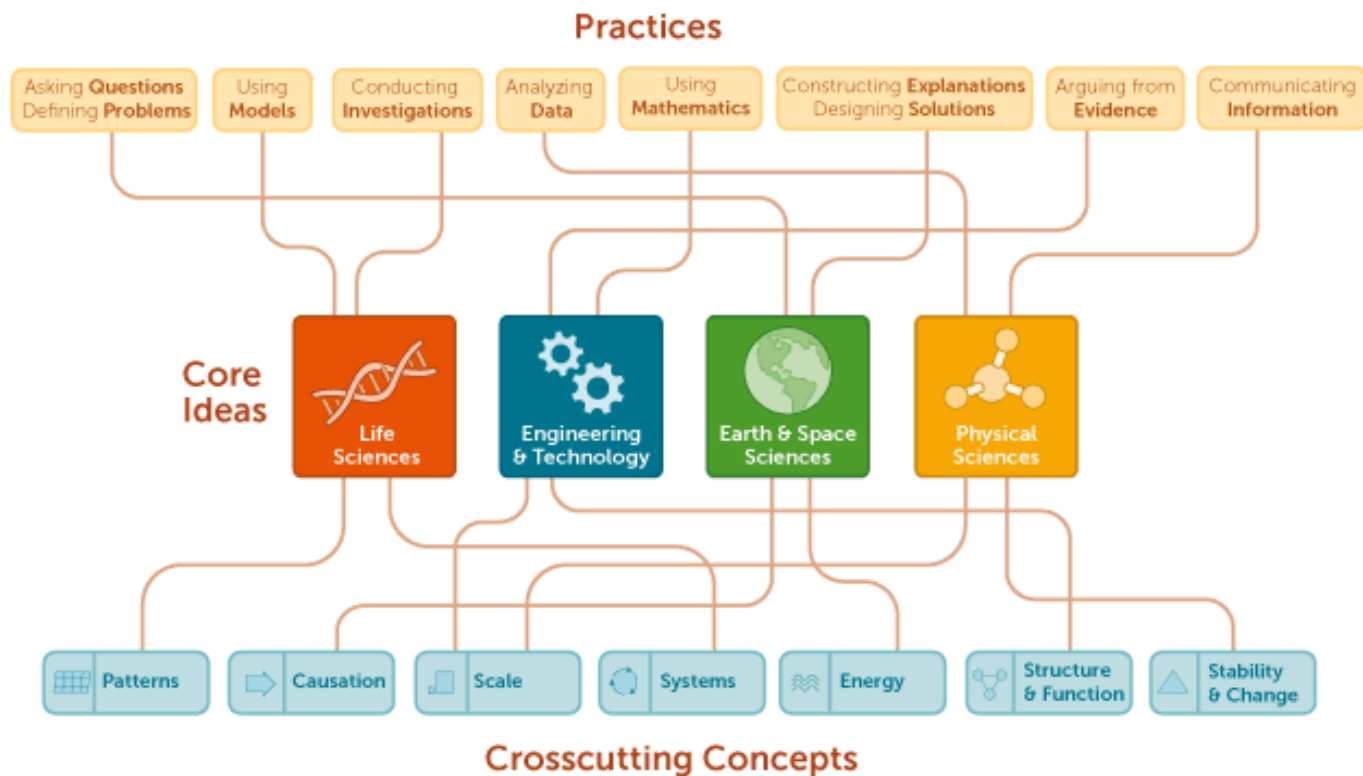
Quarter	Thematic Units	Connected to these Earth Science Topics	Want more? Other Related Topics
1	What is Earth's Place in the Universe? - Focus on The Earth, Moon, Sun System	Earth, Moon, and Sun	The Solar System; Stars, Galaxies, and the Universe
2	What's Up with the Weather? - Focus on the atmosphere, weather factors and patterns Colorado's Severe Weather Project	Atmosphere; Weather Factors; Weather Patterns	Climate and Climate Change Earth's Waters: Fresh Water; Ocean Motions; Ocean Zones
3	What are the materials that make up our Earth? - Focus on Earth Materials	Crystals; Minerals; Rocks	Earth's Resources and Human Activity; Energy Resources
4	What has formed the current landscape? - Focus on the Earth's Changing Surface Spectacular Colorado Geology Project	Plate Tectonics; Earthquakes; Volcanoes; Weathering and Soil Erosion; Erosion and Deposition	Mapping the Earth's Surface; A Trip through Geologic Time
<p>Notes: The thematic units are subject to change. This document will be updated periodically and posted through the specific course listing in Schoology. If you have questions, comments, or concerns, please contact Ms. Sandy (sjsmith@d49.org)</p>			

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FHAP - Themes in Science Courses

Introductory FHAP Themes in Science classes are delivered once per week (Thursday) in a thematic unit-studies format. During class, students will have the opportunity to explore and discover science in an active, collaborative and creative way. In addition to the classroom activities, students are expected to complete related homework assignments due at the beginning of Thursday's science class. Because of the limited time designated to learning via this FHAP science class, parents are encouraged to expand upon their learning* while at home (beyond the home assignments) in order to consider these courses as full year studies and assign a credit to the transcript. [*Connections to the course text are provided on the pacing guide as one possible resource.]

The content of all FHAP science courses will be drawn from key ideas in science that have broad importance within or across multiple science disciplines, including Physical Science, Life science, and Earth and Space Science. In addition to the science content, the science classes will integrate cross cutting science principles as opportunities arise. Students will engage in science practices to build, deepen, and apply their knowledge of key ideas and crosscutting concepts.



More information on other side of this page...