GSE Sixth Grade Earth Science Curriculum Map

These are bundles of core ideas from the Georgia Standards of Excellence related to an anchoring phenomenon.
This document is part of a framework that includes lessons and resources.

Instructional Segment:	Solar System and Beyond	Earth-Moon-Sun	Earth's Changing Landscape	Water in Earth's Processes	Climate and Weather	Human Energy Needs
Estimated Time	8 weeks	4 weeks	7 weeks	7 weeks	7 weeks	3 weeks
Crosscutting Concepts	• Cause & Effect • System & System Models • Matter & Energy • Scale, Proportion & Quantity	• Cause & Effect • System • Patterns	• Cause & Effect • Matter & Energy • Patterns	• Cause & Effect • Matter & Energy • Patterns • Stability & Change	• Cause & Effect • Matter & Energy • Patterns • Systems • Stability & Change	• Cause & Effect • Matter & Energy • Stability & Change • Systems
Anchoring Phenomenon	Celestial Objects from Different Perspectives	A Total Eclipse in Georgia Tides on the Georgia Coast What to wear? Seasonal data	Georgia's Landscape Ellison's Cave: GPB: Georgia Rocks! Weathering & Erosion photos	A Study of Water on Earth Photo of snowcapped mountain and clouds Barrier Islands of Georgia	Georgia Weather/ Climate Patterns Thunder and Lightning Visuals of a tornado	Adjusting solar panels to improve efficiency Energy Resources - Living in a Solar House
Core Ideas	• origins of the universe • Milky Way galaxy • engineering/technology • gravity • inertia • formation of the solar system • structure of the solar system	• lunar cycle (eclipses) • day/night • seasons • elliptical orbit • tilt of Earth • revolution/rotation • direct/indirect sunlight • gravity • tides • Earth's surface	• geologic time scale • rock strata • plate tectonics • rock cycle • thermal energy transfer • mineral formation • land features • catastrophic events • weathering • erosion	• water cycle • thermal energy transfer • weathering • erosion • deposition • waves, currents • sunlight • gravity • density • temperature • salinity	• ocean and atmosphere patterns • water cycle • air masses • unequal heating & rotation of Earth • natural hazards • global climate change • weathering • erosion • deposition	• renewable and non-renewable resources • global climate change
Science and Engineering Practices	• Developing and using models • Asking questions and defining problems • Analyzing and interpreting data	• Developing and using models • Constructing explanations • Analyzing and interpreting data	• Planning and carrying out investigations • Constructing explanations/arguments • Analyzing and interpreting data • Asking questions • Developing a model	• Planning and carrying out investigations • Constructing explanations • Analyzing and interpreting data • Asking questions • Developing a model	• Planning and carrying out investigations • Constructing explanations • Analyzing and interpreting data • Developing a model • Asking Questions	• Planning and carrying out investigations • Constructing explanations • Analyzing and interpreting data
GSE code	**S6E1** a-e	**S6E2** a-c; **S6E3** d; **S6E5** d	**S6E5** a-h	**S6E3** a-c; **S6E4** a-e	**S6E3** b; **S6E4** c, d, e; **S6E5** d, e	**S6E6** a-c