



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	<ul style="list-style-type: none"> • Cause and effect • Systems and system models • Scale, proportion, and quantity 	<ul style="list-style-type: none"> • Cause and effect • Systems and system models • Patterns 	<ul style="list-style-type: none"> • Cause and effect • Matter and energy • Patterns 	<ul style="list-style-type: none"> • Cause and effect • Matter and energy • Patterns • Stability and change 	<ul style="list-style-type: none"> • Cause and effect • Matter and energy • Patterns • Systems and system models • Stability and change 	<ul style="list-style-type: none"> • Cause and effect • Matter and energy • Stability and change • Systems and system models
Anchoring Phenomenon	Celestial objects from different perspectives	<ul style="list-style-type: none"> • A Total Eclipse in Georgia • Tides on the Georgia Coast • What to wear • Seasonal data 	<ul style="list-style-type: none"> • Georgia's landscape • Ellison's Cave: GPB: Georgia Rocks! • Weathering and erosion photos 	<ul style="list-style-type: none"> • A study of water on Earth • Photo of snowcapped mountains • Barrier Islands of Georgia 	<ul style="list-style-type: none"> • Georgia weather/climate patterns • Thunder and lightning • Tornado visuals 	<ul style="list-style-type: none"> • Solar panels • Living in a solar house
Core Ideas	<ul style="list-style-type: none"> • Origins of the universe • Milky Way galaxy • Gravity • Inertia • Formation and structure of solar system 	<ul style="list-style-type: none"> • Eclipses • Day/night • Seasons • Elliptical orbit • Tilt of the Earth • Direct/indirect sunlight • Gravity • Tides • Earth's surface 	<ul style="list-style-type: none"> • Geologic time scale • Plate tectonics • Rock cycle • Mineral formation • Land feature • Catastrophic events • Weathering • Erosion 	<ul style="list-style-type: none"> • Water cycle • Thermal energy transfer • Weathering • Erosion • Deposition • Waves, currents • Sunlight • Temperature 	<ul style="list-style-type: none"> • Ocean and atmosphere patterns • Water cycle • Air masses • Unequal heating of Earth • Natural hazards • Global climate change 	<ul style="list-style-type: none"> • Renewable and non-renewable resources • Global climate change

Science and Engineering Practices	<ul style="list-style-type: none"> • Asking questions and defining problems • Developing and using models • Analyzing and interpreting data 	<ul style="list-style-type: none"> • Developing and using models • Constructing explanations • Analyzing and interpreting data • Asking questions and defining problems 	<ul style="list-style-type: none"> • Asking questions and defining problems • Planning and carrying out investigations • Constructing explanations • Developing and using models • Engaging in argument from evidence 	<ul style="list-style-type: none"> • Asking questions and defining problems • Developing and using models 	<ul style="list-style-type: none"> • Asking questions and defining problems • Planning and carrying out investigations • Analyzing and interpreting data 	<ul style="list-style-type: none"> • Asking questions and defining problems • Constructing explanations and designing solutions • Engaging in argument from evidence
GSE	S6E1 a,b,c,d,e	S6E2 a,b,c; S6E3 d; S6E5 d	S6E5 a,b,c,d,e,f,g,h	S6E5 d,e	S6E3 a,b,c,d; S6E4 a,b,c,d,e	S6E6 a,b,c