# 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.

<table>
<thead>
<tr>
<th>Instructional Segment:</th>
<th>Solar System and Beyond</th>
<th>Earth-Moon-Sun</th>
<th>Earth’s Changing Landscape</th>
<th>Water in Earth’s Processes</th>
<th>Climate and Weather</th>
<th>Human Energy Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated Time</td>
<td>8 weeks</td>
<td>4 weeks</td>
<td>7 weeks</td>
<td>7 weeks</td>
<td>7 weeks</td>
<td>3 weeks</td>
</tr>
</tbody>
</table>

## Crosscutting Concepts
- Cause and effect
- Systems and system models
- Scale, proportion, and quantity

## 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 and erosion photos
- A study of water on Earth
- Photo of snowcapped mountains
- Barrier Islands of Georgia
- Georgia weather/climate patterns
- Thunder and lightning
- Tornado visuals

## Core Ideas
- Origins of the universe
- Milky Way galaxy
- Gravity
- Inertia
- Formation and structure of solar system
- Eclipses
- Day/night
- Seasons
- Elliptical orbit
- Tilt of the Earth
- Direct/indirect sunlight
- Gravity
- Tides
- Earth’s surface
- Geologic time scale
- Plate tectonics
- Rock cycle
- Mineral formation
- Land feature
- Catastrophic events
- Weathering
- Erosion
- Water cycle
- Thermal energy transfer
- Weathering
- Erosion
- Deposition
- Waves, currents
- Sunlight
- Temperature
- Ocean and atmosphere patterns
- Water cycle
- Air masses
- Unequal heating of Earth
- Natural hazards
- Global climate change
- Renewable and non-renewable resources
- Global climate change
<table>
<thead>
<tr>
<th>Science and Engineering Practices</th>
<th>GSE</th>
<th>S6E1 a,b,c,d,e</th>
<th>S6E2 a,b,c; S6E3 d, S6E5 d</th>
<th>S6E5 a,b,c,d,e,f,g,h</th>
<th>S6E5 d,e</th>
<th>S6E3 a,b,c,d; S6E4 a,b,c,d,e</th>
<th>S6E6 a,b,c</th>
</tr>
</thead>
</table>

Georgia Department of Education