

Sixth Grade Curriculum Pacing Guide

Crosscutting Concepts: Cause and Effect; Systems and System Models; Structure and Function; Patterns Earth-Moon-Sun

4 week Instructional Segment

Anchoring Phenomenon	Standard	Instructiona 1 Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
2017 Total Eclipse in Georgia Tides of the Georgia Coast What to wear?	S6E2. a, b, c S6E3. d S6E5. d	Motions of the Earth- Moon-Sun	 Frameworks of K-12 Science Education: <i>By the end of grade 8</i> ESSA1.A: The Universe and Its Stars Patterns of the apparent motion of the sun, the moon, and the stars in the sky can be observed, described, predicted, and explained. ESSA1.B: Earth and the Solar System The solar system consists of the sun and a collection of objects, including planets, their moons, and asteroids. Earth's spin axis is fixed in the direction over the short term but tilted relative to its orbit around the sun. The solar system can explain tides, eclipses of the sun and the moon, and the motion of the planets in the sky relative to the stars. The seasons are a result of tilt and are caused by the differential intensity of sunlight on different areas of Earth across the year. 	 Developing and using models Constructing explanations Analyze and interpret data Ask questions 	Background (includes safety alerts) By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN or ELABORATE. • Relative position • Relative distance • Gravity • Lunar cycle • Eclipse • Day/Night • Seasons • Elliptical Orbit • Tilt • Direct/Indirect Sunlight • Revolution/Rotation

This instructional segment will connect to Cause and Effect: Earth's Changing Landscape.