Sixth Grade Earth Science Curriculum Pacing Guide

Crosscutting Concepts: Cause and Effect; Systems and System Models; Matter and Energy

Solar System and Beyond

8 week Instructional Segment

Anchoring Phenomenon	Standard	Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
Celestial Objects from Different Perspectives (slide presentation)	**S6E1**a-e	Solar System and Beyond	Frameworks of K-12 Science Education: ***By the end of grade 6*** **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. ● The universe began with a period of extreme and rapid expansion known as the Big Bang. ● Earth and its solar system are part of the Milky Way galaxy, which is one of the many galaxies in the universe. **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. ● The solar system is held in orbit around the sun by its gravitational pull.	● Asking questions and defining problems ● Developing and using models ● Analyzing and interpreting data	By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN or ELABORATE. ● Scientific theory ● Big Bang Theory ● Universe ● Milky Way galaxy ● Solar System ● Scientific models ● Gravity ● Inertia ● Solar System ● Planets ● Characteristics ● Relative position ● Relative distance

This instructional segment will connect to Cause and Effect: The Solar System.