Trimester Focus:

Position & Motion of Objects in the sky

Big Ideas:

The sun is the central and largest body in the solar system.

- The sun's warming of the Earth and tilt of the Earth on its axis have an important connection to the seasons.
- Earth's motion is the basis for measuring time.
- Objects in the sky move in regular and predictable patterns around the Sun.
- The sun, stars and constellations appear to move in predictable patterns across the sky.
- Gravity is the force that keeps the planets in orbit around the sun and controls motion in the solar system.

GLCEs	Vocabulary	Resources	Assessments
		(See Curriculum Calendar for Details)	
Design a model of the solar system	seasons tilt axis	Textbook: • National Geographic Earth Science	 Formative Assessment: Write vocabulary words and illustrations on cards with definitions
Demonstrate and explain seasons using a model Explain how revolution	revolution rotation solar system planet	Chapters 1 & 2 <u>Suggested Trade Books:</u> The Four Seasons by	 on the back Record observations, data and conclusions in student journals Apply concepts of scale to an Earth-
and rotation relate to time	dwarf planet asteroids comets	Annie Jones • Weather and Climate by Barbara	moon model.Demonstrate understanding through illustrations and models of the
Motion of planets, orbits and rotations	gravity gravitational pull phases	 Complete book of Seasons by Sally Tagholm 	 position of objects in the solar system. Create moon journals and illustrations of phases of the moon.
Describe and diagram phases of the moon	stars constellations lunar	 America in Space by Steven Dick Our Solar System by 	 Display models or demonstrations of eclipses and tides.
<i>Explain the apparent motion of stars across the sky</i>	solar eclipse tides	 Seymour Simon Don't Know Much About the Solar System by Kannoth D 	Summative Assessment: • Write an essay to explain the
Explain lunar and solar eclipses		 Davis and Pedro Martin Earth, Moon, and Sun by Peter Riley 	 Create a model that explains the reason for seasons Create a story book for younger
Explain and diagram tides and their causes		• Will the Sun Ever Burn Out by Rosalind Mist	 students that explains the seasons Draw a diagram of the solar system which includes the correct position of
*See inquiry and reflection GLCEs		<u>Websites, Video Streaming, &</u> <u>Smart Board Activities:</u> • myNGconnect.com • See grade level resource packet	 planets, dwarf planets, comets, and asteroids. Explain and illustrate rotation and revolution of planet and moons. Write a paragraph explaining how
		• See unit Position & Motion of Objects in	 moon phases occur. Demonstrate a lunar and a solar eclipse with illustrations or models.
		the Sky	 Draw a diagram and explain how the gravitational pull of the moon causes ocean tides. Explain the difference between
			• the apparent and the actual motion of the sun and stars across the sky.