Earth and Space

Content Area: **Science**
Course(s): **Science 4**
Time Period: **Undefined**
Length: **Undefined**
Status: **Published**

Unit Overview

Essential Questions

What are some patterns in space?

How does the Earth move?

How do star patterns change?

What are the phases of the moon?

What is the solar system?

Content

Earth rotates on its axis and revolves around the sun.

Star patterns appear to change in relation to where the Earth is in its orbit.

The phases of the moon are: New moon, crescent moon, first-quarter moon, full moon, last-quarter moon.

The solar system includes the sun, the eight planets and their moons, and other objects.

Skills

Describe how Earth revolves around the sun and rotates on its axis. Describe how Earth's rotation is related to the apparent movement of the sun, moon, and stars.

Understand that patterns in the sky stay the same but appear to change nightly and throughout the year.

Describe the phases of the moon.

Demonstrate an understanding that the sun, the planets and their moons, and other objects are part of the solar system.

Assessments

Apply understanding of Earth's revolution around the sun to explain what they see when they observe the night sky.

Study Guide

Chapter Review

Chapter Test

Benchmark Practice

Performance-Based Assessment, Program Guide pg 62: Write Historical Fiction, Super Model, and/or Plan an Investigation

STEM Activity Book

Lessons/Learning Scenarios

Chapter 6: Lesson 1, Lesson 2, Lesson 3, Lesson 4

Inquiry, pg 256-257: What is one cause for the seasons?

Vocabulary

Study Guide

Chapter Review

Standards

SCI.3-4.5.1.4.B.3	Formulate explanations from evidence.	
SCI.3-4.5.1.4.C.1	Monitor and reflect on one's own knowledge regarding how ideas change over time.	
SCI.3-4.5.1.4.C.3	Present evidence to interpret and/or predict cause-and-effect outcomes of investigations.	
SCI.3-4.5.4.4	All students will understand that Earth operates as a set of complex, dynamic, and interconnected systems, and is a part of the all-encompassing system of the universe.	

Resources