

Unit Issue Provides context for relevant and connected anchoring and investigative phenomena within the unit.

There are a variety of objects in space, there are patterns of changes in the positions of these objects in the sky, and technology has played a critical role in obtaining evidence about these objects. What kinds of future space missions should we fund and conduct?

Unit Phenomena What can we observe in science that makes us wonder?

Space is vast and mysterious.

The Moon appears to change its shape over time.

There are other objects in the sky besides the Moon and the Sun.

While many objects look the same from night to night, some objects appear to move.

Activities Students use SEPs and understanding of DCIs and CCCs to explain, justify, and argue a point of view about the issue.

exploring space missions

patterns in Moon phases & orbit

correlations in daylight & Sun position

using data to explain the seasons

modeling the Earth's tilt

scale, planet size, & the Solar System

investigating gravitational force

simulating gravity and orbits

choosing a space mission