



Unit 1 Earth's Place in the Universe

Grade 6 Science

Unit Description:

This unit focuses on using models of the Sun-Earth-Moon system to describe patterns of lunar phases and eclipses of sun, moon, and seasons. Students will also use models to describe the role of gravity in the motions within galaxies and the solar system, as well as use data to determine the scale properties of objects in the solar system.

Science Standards:

- 6-MS-ESS1-1** Develop and use a model of the Earth-sun-moon system to describe the recurring patterns of lunar phases, eclipses of the sun and moon, and seasons.
- 6-MS-ESS1-2** Use a model to describe the role of gravity in the motions within galaxies and the solar system.
- 6-MS-ESS1-3** Analyze and interpret data to determine scale properties of objects in the solar system.

Enduring Understandings- Unit Anchor Phenomenon:

Earth is in the exact position in space to support life, including human life.

Essential Questions- Reflective Summaries:

- Develop a model of the Earth-Sun-Moon system illustrating at least two recurring patterns and address the accuracy of size and distance (scale), including scale limitations.
- How does gravity impact the motions within galaxies and our solar system?
- How can data be used to determine scale properties of objects in the solar system?
- How does the position of Earth in space and the pattern of Earth's movement in space allow it to support the diversity of life that exists?