

Unit: Systems in Space - Grade 5

Content Area: **Science**
Course(s): **Science 5, Generic Course**
Time Period: **Marking Period 4**
Length: **30 days**
Status: **Published**

Resources

- HMH online textbook and resources
- Mystery Science
- Generation Genius

Established Goals/Standards

5-ESS1-1	Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.
5-ESS1-2	Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.
5-ESS2-1.2	Developing and Using Models
5-ESS2-1.2.1	Develop a model using an example to describe a scientific principle.
5-ESS1-1.3.1	Natural objects exist from the very small to the immensely large.
5-ESS1-1.7	Engaging in Argument from Evidence
5-ESS1-1.7.1	Support an argument with evidence, data, or a model.
5-ESS1-1.ESS1.A.1	The sun is a star that appears larger and brighter than other stars because it is closer. Stars range greatly in their distance from Earth.
5-ESS1-2.ESS1.B.1	The orbits of Earth around the sun and of the moon around Earth, together with the rotation of Earth about an axis between its North and South poles, cause observable patterns. These include day and night; daily changes in the length and direction of shadows; and different positions of the sun, moon, and stars at different times of the day, month, and year.

Essential Questions

- How does gravity affect matter on Earth?
- What daily patterns can be observed?
- What patterns can be observed in a year?
- What is the sun?

Enduring Understanding

- Earth's orbit, the moon's orbit, and Earth's rotation cause predictable patterns.
- The sun appears so large and bright from the Earth.
- Earth is a sphere and that gravity pulls objects toward Earth's center.