

Patterns of Earth and Sky Topic Guide - 5th Grade

Guide URL:

<https://gagewest.my.canva.site/patterns-of-earth-and-sky-5th-science-research-guide>

Created by Tina Morroni:

Library Media Specialists, Brader Elementary School

Learning Objective:

Students will be able to explain how Earth's rotation and revolution cause observable patterns in the sky, such as day and night, the movement of the sun and stars, and the phases of the moon, and then create a storyboard to describe and predict these patterns.

Student-Friendly Objective:

I can explain how Earth's movements cause things we see in the sky—like day and night, the Moon's phases, and how the Sun and stars seem to move. I will show what I know using a model or diagram.

Next Generation Science Standard Addressed:

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.

Delaware State Science Standard Addressed:

DE Standard - Patterns of Earth and Sky explores how Earth's movements cause observable phenomena like day and night, the apparent motion of the sun and stars, and the phases of the moon. Students learn about Earth's rotation and revolution, and how these motions create predictable patterns in the sky that can be observed and measured.

American Association of School Librarians (AASL) Learner Competencies Addressed:

AASL 1.B.1 Learners engage with new knowledge by following a process that includes using evidence to investigate questions.

AASL 1.B.3 Learners engage with new knowledge by following a process that includes generating products that illustrate learning.

AASL 1.D.2 Learners participate in an ongoing inquiry-based process by engaging in sustained inquiry.

AASL 1.D.3. Learners participate in an ongoing inquiry-based process by enacting new understanding through real-world connections.

Created in the summer of 2025