

New York State Science Learning Standards Season of Light

2nd Grade

Crosscutting Concepts:

- Patterns
- Cause and Effect
- Stability and Change
- Science Addresses Questions About the Natural and Material World

3rd Grade

- **3-PS2-2.** Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.

Disciplinary Core Ideas:

- PS2.A: Forces and Motion

Crosscutting Concepts:

- Patterns
- Cause and Effect

4th Grade

Disciplinary Core Ideas:

- PS4.B: Electromagnetic Radiation

Crosscutting Concepts:

- Patterns
- Cause and Effect
- Scientific Knowledge Assumes an Order and Consistency in Natural Systems

5th Grade

- **5-ESS1-2.** Represent data in graphical displays to reveal patterns on daily changes in the length and duration of shadows, day and night, and the seasonal appearance of some stars in the sky.

Disciplinary Core Ideas:

- ESS1.A: The Universe and its Stars
- ESS1.B: Earth and the Solar System

Crosscutting Concepts:

- Patterns
- Cause and Effect
- Science Addresses Questions About the Natural and Material World
- Scientific Knowledge Assumes an Order and Consistency in Natural Systems



Middle School

- **MS-ESS1-1.** Develop and use a model of the Earth-Sun-moon system to describe the cyclic pattern of lunar phases, eclipses of the Sun and Moon, and seasons.

Disciplinary Core Ideas:

- PS4.B: Electromagnetic Radiation
- ESS1.A: The Universe and Its Stars
- ESS1.B: Earth and the Solar System

Crosscutting Concepts:

- Patterns
- Cause and Effect
- Stability and Change
- Science Addresses Questions About the Natural and Material World
- Scientific Knowledge Assumes an Order and Consistency in Natural Systems

High School

- **HS-ESS1-7.** Construct an explanation using evidence to support the claim that the phases of the moon, eclipses, tides, and seasons change cyclically.

Disciplinary Core Ideas:

- PS4.B: Electromagnetic Radiation
- ESS1.B: Earth and the Solar System

Crosscutting Concepts:

- Patterns
- Cause and Effect
- Scientific Knowledge Assumes an Order and Consistency in Natural Systems