

LINCOLN PUBLIC SCHOOLS  
Science Learning Expectations: Grade 2

**STANDARD:**

EARTH AND SPACE  
SCIENCE:

Mass Standard

The Sun as a  
Source of Light  
and Heat  
Periodic  
Phenomena

Recognize that  
the sun supplies  
heat and light to  
the earth and is  
necessary for  
life.

Identify some  
events around us  
that have  
repeating  
patterns,  
including the  
seasons of the  
year, day and  
night.

**Big Ideas**

- ❑ The sun supplies heat and light to the earth.
- ❑ The spherical shape of the earth and its tilt in relationship to the sun results in the seasons of the year, day and night.

**Key Outcomes**

- ❑ Students will demonstrate an understanding that **the Earth's movement around the sun causes the Earth's seasonal and day-night cycles** by demonstrating and explaining the Earth's movement.

**Essential Knowledge and Skills**

*Students will be able to:*

- ❑ How to use scientific inquiry\* to access, explore and explain their understanding of core knowledge
- ❑ The shadow of an object changes when the object or the light source moves
- ❑ The rotating earth revolves around the sun
- ❑ The location and times of the sunset/sunrise change during the year
- ❑ There are different numbers of daylight hours in different parts of the world
- ❑ The earth rotates on a tilted axis
- ❑ Day and night are caused by the earth's rotation

\*Scientific Inquiry Standards are embedded in each unit of study