

# Ohio Science Standards

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## The Alien Who Stole Christmas

Hold on to your Santa hats as we explore the night sky and go on an adventure with Mr. Freep and Santa himself! The Alien Who Stole Christmas covers these [Ohio Education Standards](#):

### Kindergarten

#### EARTH AND SPACE SCIENCE (ESS)

- ✓ **The moon, sun and stars can be observed at different times of the day or night.**
  - The moon, sun and stars are in different positions at different times of the day or night. Sometimes the moon is visible during the night, sometimes the moon is visible during the day and at other times, the moon is not visible at all. The observable shape of the moon changes in size very slowly throughout each day of every month. The sun is visible only during the day. The sun's position in the sky changes in a single day and from season to season. Stars are visible at night, some are visible in the evening or morning and some are brighter than others.

### 1<sup>st</sup> Grade

#### PHYSICAL SCIENCE (PS)

- ✓ **Objects can be moved in a variety of ways, such as straight, zigzag, circular and back and forth.**
  - The position of an object can be described by locating it relative to another object or to the object's surroundings. An object is in motion when its position is changing. The motion of an object can be affected by pushing or pulling. A push or pull is a force that can make an object move faster, slower or go in a different direction.

### 2<sup>nd</sup> Grade

#### EARTH AND SPACE SCIENCE (ESS)

- ✓ **The atmosphere is made up of air.** –This show touches on the atmospheres of other planets as well.
  - Air has properties that can be observed and measured. The transfer of energy in the atmosphere causes air movement, which is felt as wind. Wind speed and direction can be measured.

## 5<sup>TH</sup> Grade

### EARTH AND SPACE SCIENCE (ESS)

- ✓ **The solar system includes the sun and all celestial bodies that orbit the sun. Each planet in the solar system has unique characteristics.**
  - The distance from the sun, size, composition and movement of each planet are unique. Planets revolve around the sun in elliptical orbits. Some of the planets have moons and/or debris that orbit them. Comets, asteroids and meteoroids orbit the sun.