

# Ohio Science Standards

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## Sizing Up Space

Sizing Up Space gives a look on how vast space really is; and how we can put that into perspective with the speed of light. Sizing Up Space covers these [Ohio Education Standards](#):

### 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.
- ✓ **The sun is one of many stars that exist in the universe.**
  - The sun appears to be the largest star in the sky because it is the closest star to Earth. Some stars are larger than the sun and some stars are smaller than the sun.

#### PHYSICAL SCIENCE (PS)

- ✓ **Light and sound are forms of energy that behave in predictable ways.** – (This show focuses on the *light* part of this standard)
  - Light travels and maintains its direction until it interacts with an object or moves from one medium to another and then it can be reflected, refracted or absorbed. Sound is produced by vibrating objects and requires a medium through which to travel. The rate of vibration is related to the pitch of the sound.