



How does light work? Angles of Reflection

Have you ever wondered how a mirror works? Explore the magic of lights reflection through this hands on activity.

Time

- 5 minutes prep time
- 15-20 minutes class time for activity

Grade

- 1-4

Next Generation Science Standards

- 1-PS4-3. Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path light.
- 4-PS3 Energy 4-PS3-2. Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.

Materials

- ◇ A 4 x 6 inch mirror for each student group
- ◇ A roll of masking tape for each student group
- ◇ Science notebook or lab sheet
- ◇ Protractor for older grades
- ◇ Strong tape to secure mirrors to classroom wall

Utah Science Core Standards

- K-2 Standard 2– Earth and Space Science
- 3.1.b Explain the sun is the source of light that lights the moon
- 6.6 Students will understand properties of heat, light and sound.
- 6.6.2b Compare the reflection of light from various surfaces.

Directions

- You will want to split your classroom into partner groups for this activity.
- You will need about 4 feet of empty wall space for this activity, an MPR may work well.

GBO suggestion - Do this activity as a station in a rotation with several other light activities.

Suggested activities to create stations are:

- How does light work? Making a water prism
- Making sense of color
- Follow directions for activity in “Mirror, Mirror on the Wall: Angles of Reflection”