

Light Reflects

What happens when light hits a mirror?

Materials:

Mirrors
Flashlight
Secret Message paper
Teddy bear counter or small object



Directions: This is an exploration on what happens when light hits a mirror. First pose the question, "What happens when light hits a mirror?" Solicit responses from students and have them write down their hypothesis. Give each student a flashlight and mirror. Turn the lights off and let the exploration begin. You will probably have to assist students in getting the right angle so that they can see where the reflection off the mirror went. Explain to students that the light is bouncing off the mirror. It is reflecting the light. Have students write down their conclusion.

Next have students explore the **Secret Message** with their mirrors! Why is the image that we see in the mirror backwards??



Now have students use their mirrors and a teddy bear counter to explore how mirrors reflect at different angles. Use the **Teddy Bear Reflections** paper. Why do we see multiple images of the bear? Talk about how the light is bouncing or reflecting off the mirrors. What questions do the students have?

We can learn a lot about the world around us by observing things. By asking questions, trying new things and observing what happens, we can discover and learn new things! This is science!! It all starts with an inquiry!

Ask a **Question**

Form a **Hypothesis**

Record **Observations**

Make a **Conclusion**

*How can we use this to communicate? Refer back to "Ways People Communicate" anchor chart.

My Secret Message!

Use a mirror to read this secret message.

The sun is out
main source of
light!
Can you write a
secret message?