

Shining Light

Procedure

- 1. Collaborate** Work with a partner. Hold a sheet of paper about 10 cm above a table. Ask your partner to shine a flashlight straight down onto the paper.

- 2. Observe** Observe the light on the paper. See if light from the flashlight is shining anywhere else. Record your observations on the lines below.

- 3.** Hold a mirror above the table. Again, have your partner shine the flashlight straight down onto the mirror.
- 4. Record Data** Observe the light on the mirror. Look to see if the light shines anywhere else. Record your observations on the lines below.

- 5.** Hold a piece of clear plastic wrap while your partner shines a flashlight over it.
- 6. Observe** Observe the light on the plastic wrap. See if the light shines anywhere else. Record your observations on the lines below.

Conclusion

Write the answers to the questions below.

1. **Analyze Data** Describe how the light acted when you shined it on the paper, on the mirror, and on the plastic wrap.

2. **Hypothesize** Write a hypothesis to explain why the light acted differently each time.

Investigate More!

Design an Experiment Predict how the light would look if you shined the flashlight on wax paper, aluminum foil, and a glass of water. Test your predictions.

