Name _____ Date _____

Process Skill Activity

Experimenting with Shadows

Follow This Procedure

1. How does the distance of an object from a source of light affect the size of the object's shadow?

_____

_____

_____

_____

2. Write a hypothesis to answer the question above.

_____

_____

_____

_____

3. Design an experiment to test your hypothesis. Write the procedure and identify the variables.

_____

_____

_____

_____

4 and **5.** Perform your experiment and record your data in a chart.

Name _____ Date _____

6. Interpret your data and state your conclusion.

_____

_____

_____

_____

Thinking About Your Thinking

What is the difference between a hypothesis, as in step 2, and a conclusion, as in step 6?

_____

_____

_____

What information is your hypothesis based on? What information is your conclusion based on?

_____

_____

_____

Self-Assessment Checklist	
I wrote a **hypothesis** to answer a question.	_____
I designed an experiment to test my hypothesis.	_____
I wrote the procedure and **identified variables** for my experiment.	_____
I recorded my **data** in a chart.	_____
I stated my **conclusion** based on the results of the experiment.	_____

Notes for Home Your child wrote a hypothesis and designed an experiment to test it.
Home Activity: Have your child explain the steps involved in conducting a scientific experiment.

