

LEARNING HOW LIGHT WORKS



Light and Shadows

NAME _____

TEACHER'S NAME _____

SCHOOL _____



Learning How Light Works: Light and Shadows

Each of the activities shows a picture and asks what you think you will see on a screen. *Make your prediction by drawing or writing what you think you will see in the spaces below **before** trying the experiment!*

If your prediction is correct, proceed to the next activity. If it's not correct, try to figure out why before continuing.

Activity 1: How does light travel?

What you think you will see.	What you actually saw.

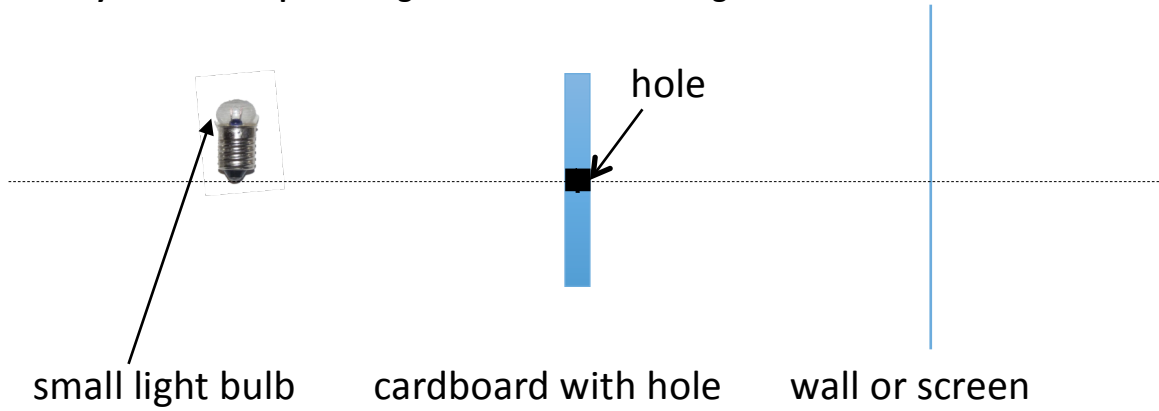
Activity 1: How does light travel? - moving light sources.

What you think you will see when the source moves up?	What you actually saw.

What you think you will see when the source moves down?	What you actually saw.



Activity 1: Draw the path of light from the bulb through the hole to the screen.



Activity 2: Two light sources


What you think you will see.	What you actually saw.

Activity 3: Three light sources

What you think you will see.	What you actually saw.



Activity 3: Many, many light sources

What you think you will see.	(We're not going to try this one)
	

Activity 3: A line of light

What you think you will see.	What you actually saw.

Activity 4: Pinhole viewer

1. What did you use for a bright object?

2? How did your image look? Was it clear or blurry? Was it right side up or upside down?



Debrief Activities

1. How does light travel when it goes from one place to another?
2. In learning about light today, what surprised you?
3. In learning about light today, what is one thing you learned that was new?

