

NAME(S) \_\_\_\_\_

## Pinholes and Triangles

### Part I

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?

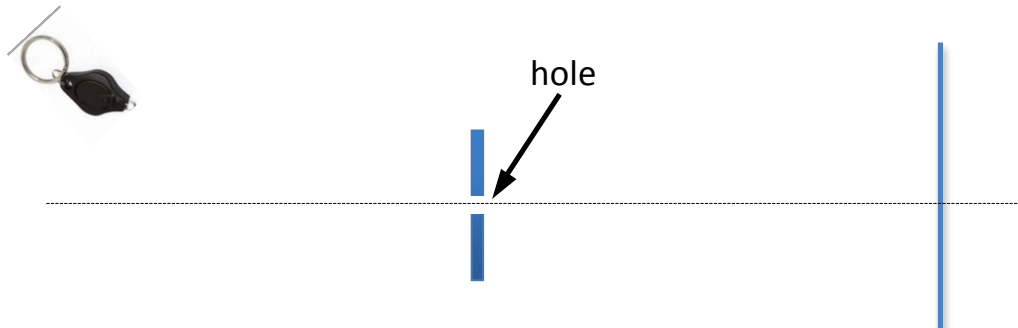
What you think you will see.	What you actually saw.

#### 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.

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



NAME(S) \_\_\_\_\_


**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: How big?** Show your calculations of the size of the image.