**Pinhole Camera Lab**

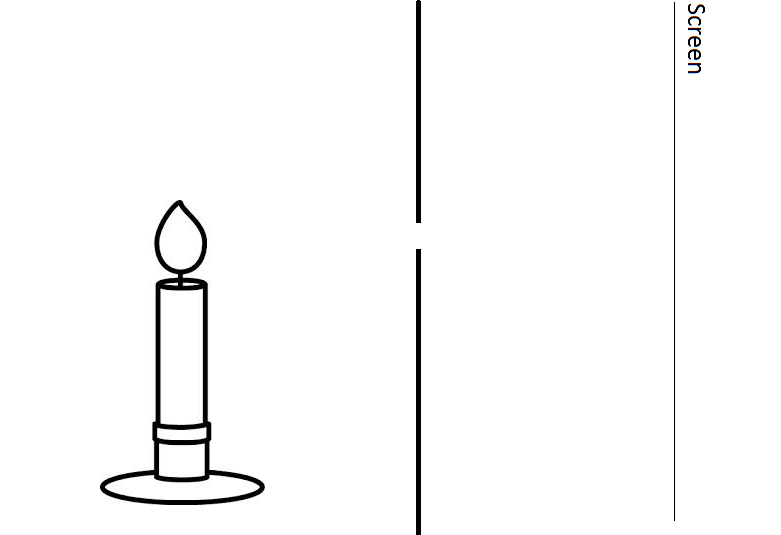
**Purpose**: To investigate the properties of a pinhole using the concepts of ray optics.

1. Set up the camera as directed by the teacher.
2. Before the candle is lit:

Make a prediction on what it will look like on the screen:

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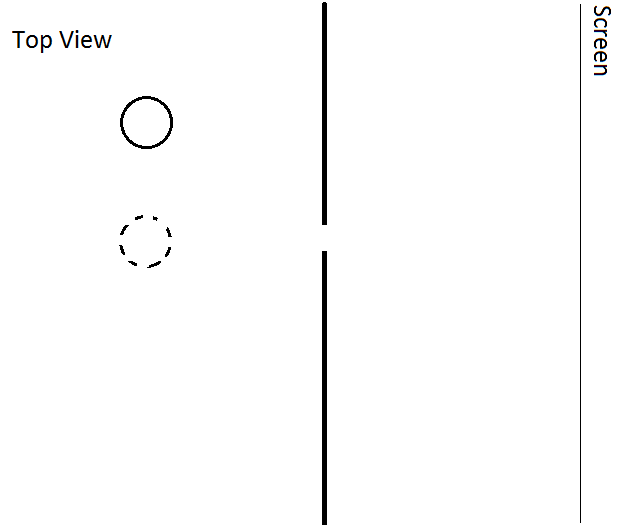


1. Move the candle to the side as seen below.

Make a prediction on where the image will move:

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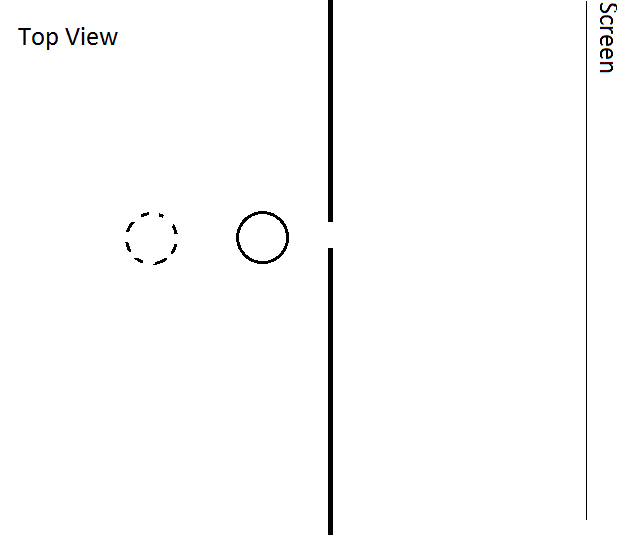


1. Move the candle back to the middle. Move it closer to the screen.

Make a prediction on what the image will do:

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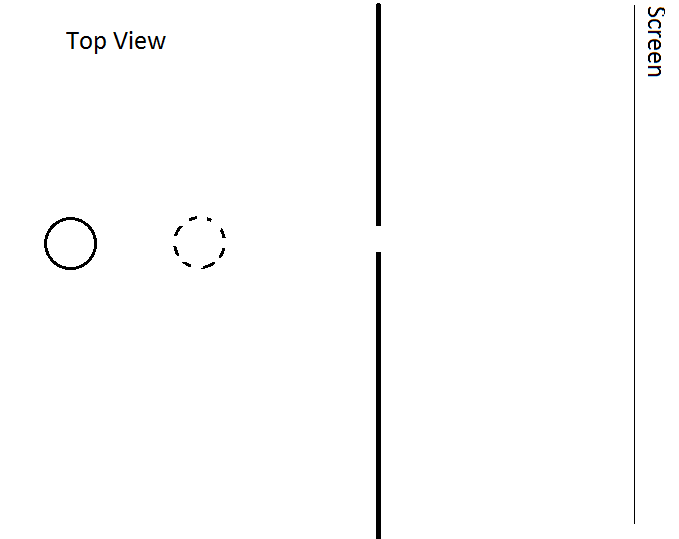


1. Move the candle further away from the screen.

Make a prediction on what the image will do:

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**Questions:**

1. What relationship (with the position of the candle) did you find with the:
   1. Size of the image?
   2. Brightness of the image?
   3. Left/Right relationship?
2. What does the pinhole do to the orientation of the image? What would the “F” below look like on the screen of a pinhole camera?

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