

PINHOLE VIEWER

Materials

Plastic Cup

Push Pin

Rubber Band

Wax Paper

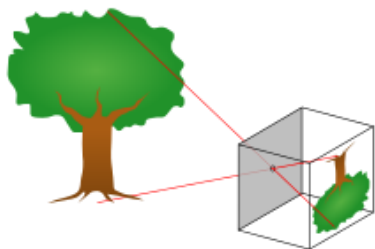
Scissors



Let's Build

1. Punch a hole into the center of the cup's bottom with the push pin.
2. Cut a piece of wax paper slightly larger than the cup's opening. Stretch this paper across the mouth of the cup. Use a rubber band to secure this paper in place.
3. Darken the room and aim the pinhole at a bright light or window. Look at the wax paper. What do you see?

Note: Don't look through the cup! We are looking at the image projected on the wax paper.



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What's The Science?

Light from the bright light or window enters the hole of the viewer. These light rays continue a straight path, all the way to the wax paper screen. The upper light rays strike closer to the bottom of the wax screen and the lower light rays strike closer to the top of the wax screen.