

STEAM in the Classroom

SCIENCE-TECHNOLOGY-ENGINEERING-AGRICULTURE-ART-MATH

PINHOLE ECLIPSE VIEWER

For this challenge/activity you will need:

- 2 pieces of white cardstock or heavy paper
- Aluminum foil
- Tape
- Thumbtack, pencil, or paperclip

Directions:

1. Carefully cut a 1 inch by 2 inch rectangle out of the center of one piece of cardstock.
 2. Tape a piece of aluminum foil over the opening you just made. Tape around all the edges.
 3. Flip the paper over. Use the thumbtack, pencil or paperclip to punch a small hole in the center of the aluminum foil.
 4. Place your second piece of card stock on the ground and hold the piece with aluminum foil above it (foil facing up). Stand with the Sun behind you and view the projected image on the card stock below! The farther away you hold your camera, the bigger your projected image will be.
 5. For extra fun, try poking multiple holes in your foil to make shapes, patterns, and other designs. Each hole you create will turn into its own projection of the Sun, making for some neat effects.
 6. Grab a helper to take photos of your designs for a stellar art project you can enjoy even after the eclipse has ended.
- This project was adapted from <https://www.jpl.nasa.gov/edu/learn/project/how-to-make-a-pinhole-camera/>



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