

Solar Eclipse Pinhole Projector

During an eclipse of the sun, light passing through a small hole will cast a crescent shape onto the ground. You can follow the progress of an eclipse by making a simple pinhole projector. Remember to not look at the sun.

Make your pinhole projector:

Step 1: Poke holes with a sharp pencil in the paper.

Step 2: Hold your paper up to the sun.

Step 3: Look at the shadow that your paper casts.

You should see a crescent sliver of light that represents the current stage of the solar eclipse.

Step 4: Set up a viewing paper in the shadow of the projector paper.

You can use a three ring binder to get the perfect viewing angle.

Design an Experiment:

Create different sizes and shapes of holes to discover how the sun's light will be projected. Create your own pictograph designs.



Note: If your projector is not working, hold your paper up as high as you can. Increasing the distance of your projected shadow will help.