## Solar Eclipse Pinhole Projector



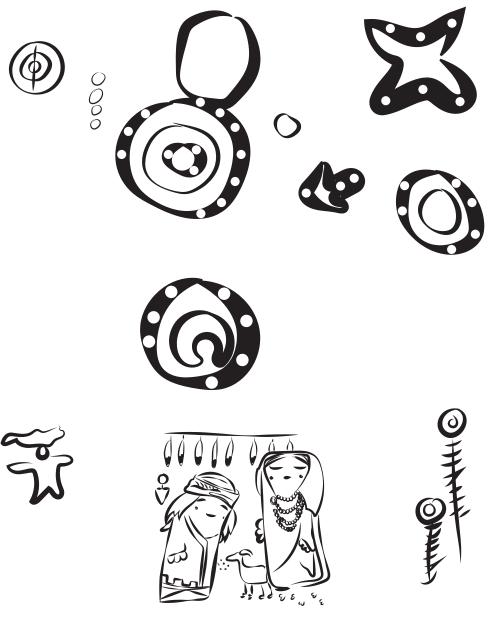
Durring an eclipse of the sun, light passing through a small hole will cast a crescent shape onto the ground. You can follow the progress of an eclipse by making a simple pinhole projector. Remember to not look at the sun.

## 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 owm 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.