

Name _____ Date _____

Observe the Sun Using a Solar Viewer

Part 1. Follow the directions below to safely use the pinhole viewer you built.

- 1 Stand facing away from the sun.
- 2 Lift the viewer hole to your eye and point the tube over your shoulder in the direction of the sun.
- 3 Try to find the sun's image on the paper, looking through the viewing hole. When your pinhole camera is pointed properly at the sun, you will see a small spot of light on the paper. The size of the spot will depend on the length of your pinhole camera.

Hint: If you have difficulty finding the sun's image, which will be a small and possibly faint spot of light on the paper, try this: Look at the shadow that your pinhole camera tube casts on the ground and move the camera around until its shadow is as small as possible. When the tube is pointed directly at the sun, its shadow will be at its smallest.

Part 2. When you find the sun's image, carefully observe the image in your viewer. Once the moon fully covers the sun, observe the corona. Quickly sketch what you see and document any changes.