**Materials and Supplies**

- 2 Toilet Paper Rolls
- Scissors
- Frosted Scotch Tape
- Push Pin
- Aluminum Foil

**Tube 1**

- Cut one Toilet paper roll length wise
- After cutting the tube down the middle insert it into the other tube. Make sure it will slide back and forth easily

**Step 1**

- Tape toilet #1 paper roll so it will not unroll

**Step 2**

**Tube 2**

- Make the ground glass by stretching frosted scotch tape across the top of paper towel roll.
- Do not cross the tape

**Step 3**
Slide Tube 1 inside Tube 2. To focus and make image smaller or larger move inner tube back and forth.

Go out and try out your new camera obscura. The more light the better, but don’t look directly at the sun.

The hole or aperture allows light rays to flow into the camera. The image is bent when it hits the edge of the aperture and flips over. When you look through the roll pretend a movie is playing on the scotch tape this is where you will see the upside down image.

The smaller the hole the more focused the image. Start with a small hole you can always make it larger later.

Ask an adult to make a small hole (aperture) using a pin in the center of the tinfoil.

Stretch tinfoil over top and tape in place.