

## Cardboard Box Viewer

Built by Dana Browne

By closing the screen in a box, the image is brighter. Also, you can get close to the image to see detail. I have built this with a mailing tube and a shoe box. To get the biggest image, you want the pinhole and the screen as far apart as possible, so they go on the opposite ends of the long side of the box. You need some paper for the screen and piece of aluminum foil to punch the pinhole in.



1. Tape a piece of white paper at one end of the box for your screen



2. Use the scissors to cut a hole at least 1/2" wide at the other end of the box.



3. Tape the aluminum foil over the hole.



4. Use a big paper clip to poke a hole in the foil



5. Cut a window close to the screen to be able to view the image. Tape the box closed.



6. The box is ready for use. You can see the screen through the window. The aluminum foil with the pinhole will point at the sun.

7. Viewer with pinhole pointed at the sun. You can see the bright image of the sun through the window.



8. Closeup View of the Sun



