



# Science Saturday

August 12  
Noon-5 P.M.  
Lind Lecture

 **WEBER STATE UNIVERSITY**  
College of Science

DEPARTMENT OF  
**PHYSICS**



Let us know  
you are coming.

<https://goo.gl/aXo9op>

## VIEWING THE ECLIPSE

*Never look directly at the sun. Serious injury and even blindness can occur without proper eye protection.*

### Pinhole Projector

**Upgraded, using supplies around the home.**

This pinhole projector works on the same principle as a basic pinhole projector. The upgrades provide a clearer and more intriguing viewing experience.

#### You Need:

- a sturdy cardboard box that can be placed over the head and is longer than it is wide
- scissors
- duct tape
- aluminum foil
- a pin, or thumbtack
- a sharp knife or paper cutter
- a sheet of white paper

#### What to Do:

1. Cut a rectangular hole at the end of the box. You can tape 2 boxes together to make a long box. The longer the box, the larger the projected image.
2. Using the scissors, cut out a piece of the aluminum foil slightly larger than the rectangular hole. Make sure the foil is completely flat and not crinkled.
3. Tape the foil over the rectangular hole in the box.
4. Use the pin to poke a tiny hole in the center of the foil.
5. Tape the sheet of paper on the inside of the other end of the box.
6. Stand with your back toward the Sun. Place the box over your head with the pinhole towards the Sun. Adjust your position until you see a small projection, a negative image, of the eclipsed Sun on the paper inside the box.

