

Total Solar Eclipse

Care Provider Bulletin

August 2017



Need solar eclipse glasses? Make a pinhole camera!

Materials: 2 pieces of white card stock, aluminum foil, tape, and a pin or paperclip

1. Cut a square hole into the middle of one of the pieces of card stock.
2. Tape foil over the hole.
3. Poke a hole in the foil with the pin or paper clip.
4. Place the second piece of card stock on the ground and hold the piece with the aluminum foil above it with the foil facing up. Stand with the sun behind and view the projected image on the card stock below.

For additional tips and a more detailed version, go to www.jpl.nasa.gov/edu/learn/project/how-to-make-a-pinhole-camera/

What is a solar eclipse?

A solar eclipse occurs when the moon crosses between the earth and sun, causing a block to all or a portion of the sun. On Monday, August 21, 2017, anyone within the path of the solar eclipse's totality in North America will be able to see a total solar eclipse. Individuals outside of the totality path will see a partial solar eclipse. The path stretches from Salem, Oregon to Charleston, South Carolina. In Washington the partial eclipse will begin just after 9 a.m. and peak in Seattle around 10:20 a.m. The eclipse will end at approximately 11:39 a.m. You must take precautions during the entire span of the eclipse.

Precautions

- During the solar eclipse, looking directly at the sun is unsafe except during the brief total phase when the moon entirely blocks the sun from view. The only safe way of looking directly at the uneclipsed or partially eclipsed sun is through eclipse glasses, or with hand-held solar viewers.
- It is important to obtain eclipse glasses from a reputable manufacturer and authorized dealer because the only filters safe are ones that are compliant to the international safety standards. Look for glasses imprinted with "ISO." Outside of the path of totality, always use a solar filter to view the sun.
- NASA's list of reputable manufacturers and vendors are available at www.eclipse.aas.org/resources/solar-filters.



Time for the solar eclipse?

- Always inspect solar filter before use.
- Do not remove filter while looking at the sun.
- Do not look at uneclipsed or partially eclipsed sun through unfiltered cameras, binoculars, or other optical devices, as it can damage your eyes and equipment.
- For more safety tips, visit <https://eclipse2017.nasa.gov/safety>

Rather sleep or stay inside?

- NASA will be live streaming the total solar eclipse and footage will be available at <https://eclipse2017.nasa.gov/eclipse-live-stream>