

Solar Eclipse Safety And Imaging Guide

Professional field booklet for safe viewing, imaging, and family experiments

A practical guide for safe eclipse viewing, simple household experiments, and memorable family observations.

Cover

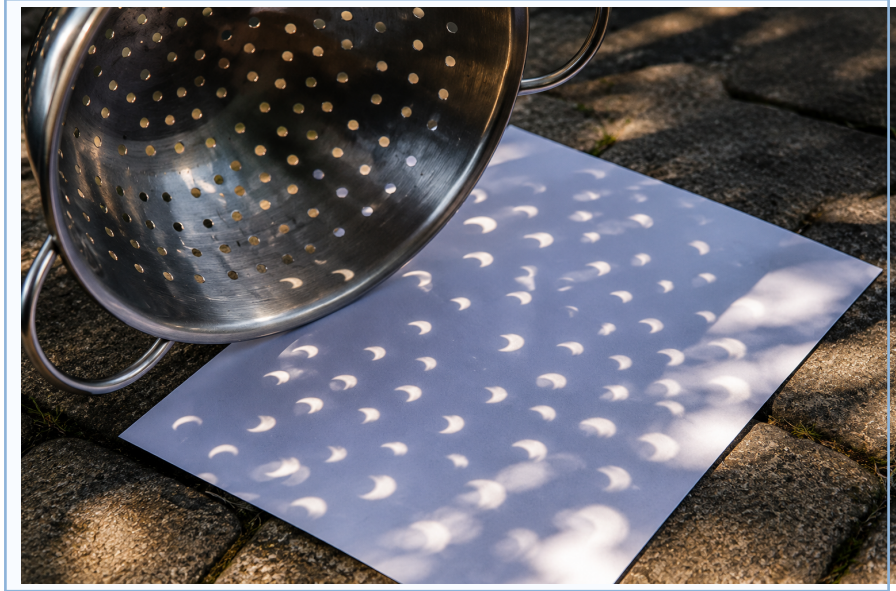
Fast Checklist

- Certified eclipse glasses or handheld viewers for direct viewing.
- Front-mounted solar filters for cameras, binoculars, or telescopes.
- A practiced plan for removing and replacing camera filters only during totality, if you will be inside the path.
- A simple imaging plan that leaves time to actually watch the eclipse.
- One or two safe household experiments for children or first-time observers.

Use this page as a quick reference before you head outside.

Colander Projection

Hold a kitchen colander or slotted spoon so sunlight falls onto paper or paving, and watch each bright spot turn into a tiny crescent.



How to do it

- Place the colander or spoon between the Sun and a flat sheet of paper.
- Watch the pattern change as the eclipse deepens.
- Take photos every 10 to 15 minutes to compare the shapes.

Colander Projection Findings

Date:

Time observed:

Location:

What I noticed:

Sketch / notes:

- Brightness change
- Temperature change
- Shape change
- Questions / follow-up

Cereal-Box Pinhole Viewer

Use a cereal box, foil, tape, and white paper to create a simple projection viewer for the Sun.



How to do it

- Tape white paper inside one end of the box.
- Make a tiny pinhole in the foil at the opposite end.
- Stand with your back to the Sun and view the projection inside the box.

Cereal-Box Pinhole Viewer Findings

Date:

Time observed:

Location:

What I noticed:

Sketch / notes:

- Brightness change
- Temperature change
- Shape change
- Questions / follow-up

Leaf-Shadow Test

Stand under a tree and look at the small gaps between leaves on the ground.



How to do it

- Observe the ground under the leaves during the partial phases.
- Notice how each gap projects a tiny crescent.
- Compare the pattern before and near maximum eclipse.

Leaf-Shadow Test Findings

Date:

Time observed:

Location:

What I noticed:

Sketch / notes:

- Brightness change
- Temperature change
- Shape change
- Questions / follow-up

Temperature And Light Log

Record how the environment changes as the eclipse proceeds.



How to do it

- Record temperature, brightness, and wind every 5 to 10 minutes.
- Note any changes in birds, insects, or ambient sound.
- Compare the readings after the eclipse to see the pattern.

Temperature And Light Log Findings

Date:

Time observed:

Location:

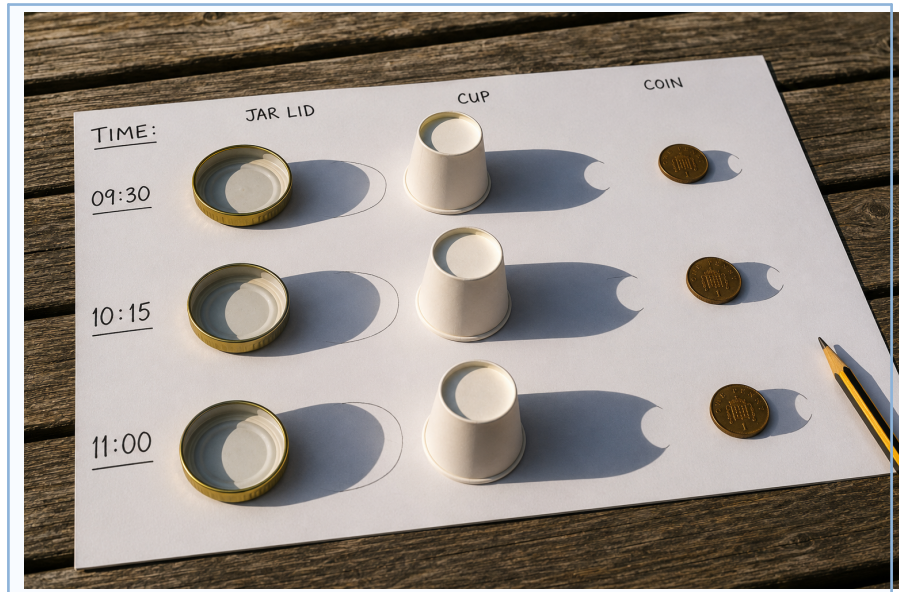
What I noticed:

Sketch / notes:

- Brightness change
- Temperature change
- Shape change
- Questions / follow-up

Shadow-Shape Challenge

Place round household objects on white card and trace how their shadows change.



How to do it

- Lay coins, jar lids, or cups onto white card.
- Trace the outlines of the shadows as the eclipse progresses.
- Compare the shapes and sharpness at different times.

Shadow-Shape Challenge Findings

Date:

Time observed:

Location:

What I noticed:

Sketch / notes:

- Brightness change
- Temperature change
- Shape change
- Questions / follow-up