



Total Solar Eclipse

SCIENCE OBSERVATION CHECKLIST



Sun

Can you see the specific signs of a total solar eclipse?*

- Is there a "diamond ring" around the sun?
- Can you see "Bailey's Beads"?
- Can you see the Sun's corona?
- Can you draw a picture of your observations?

**Always use your safety viewing glasses during the eclipse!*



Shadow

Can you use a pinhole projector to check the maximum coverage of the Sun by the Moon? (Instructions to make one are at AugustEclipse.com)

- Mark the spot inside the cardboard box.
- Fill in the circle and compare with the observations of people around you.
- How much coverage are they guessing?

Environment

What happens around you during the eclipse?

- Does the wind increase or decrease?
- Does the temperature change?
- Do you hear or see anything different in animals' behavior?



**BONUS
CHALLENGE**

Speed

How fast is the umbral shadow moving?

- Look for landmarks (e.g., buildings or mountain peaks) near you.
- Find the known distance between the two places.
- Use a stopwatch or a clock with second hand to calculate the speed of the shadow.

