



On April 8, 2024, a total solar eclipse will occur in northeast Ohio. A total solar eclipse is a rare and spectacular event. Ohio's last total solar eclipse was in 1806, and its next will be in 2099.

Mon., April 8, 2024	
Start of partial eclipse	1:59:23 PM
Start of total eclipse	3:14:19 PM
Maximum eclipse	3:15:49 PM
End of total eclipse	3:17:18 PM
End of partial eclipse	4:29:12 PM
Duration of totality	2 minutes, 59 seconds

It is not safe to look directly at the sun without specialized eye protection for solar viewing, except during the brief total phase of a total solar eclipse, when the moon completely blocks the sun.

You can also safely view the eclipse through a homemade pinhole projector. Instructions for building your own are on the next page. →

### Supplies you'll need:

- Empty cereal box or shoe box
- Pen or pencil
- Scissors
- Plain white sheet of paper
- Aluminum foil
- Tape
- Thumb tack or thin paper clip

### Assembly instructions

1. Place one end of the box on the paper.
2. Outline the shape of the box on the paper.
3. Cut out the shape and place it inside the box.
4. Secure the paper inside the box with tape.
5. On the opposite side of the box from the paper, cut rectangular holes on the left and right of the box. Any loose flaps of cardboard can optionally be secured together with tape.
6. Cut a piece of aluminum foil large enough to cover one of the holes and secure it with tape.
7. With a thumbtack or a small paper clip, poke a small hole in the center of the foil.

### Viewing instructions

1. With the sun behind you, look closely into the uncovered opening.
2. Watch the projection of the eclipsed sun on the paper inside of the box.

