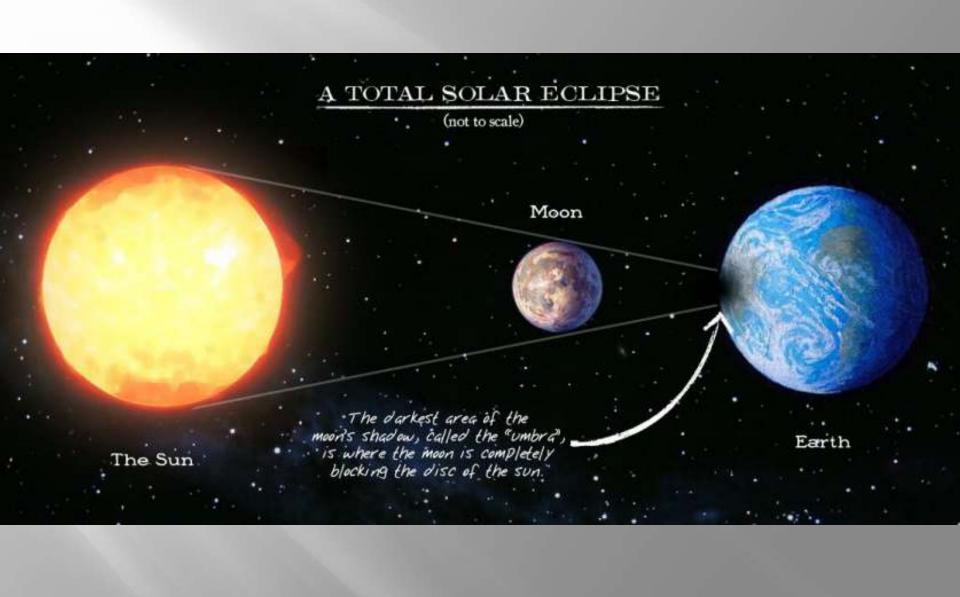
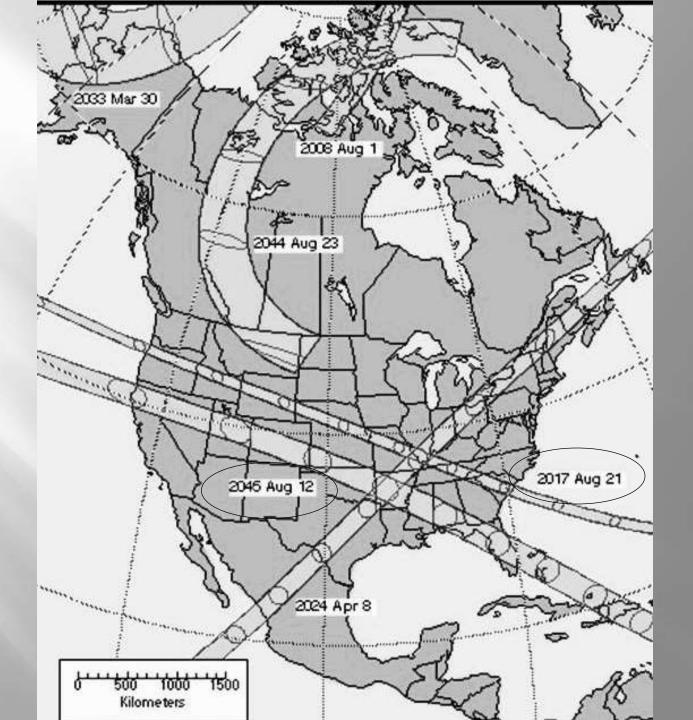
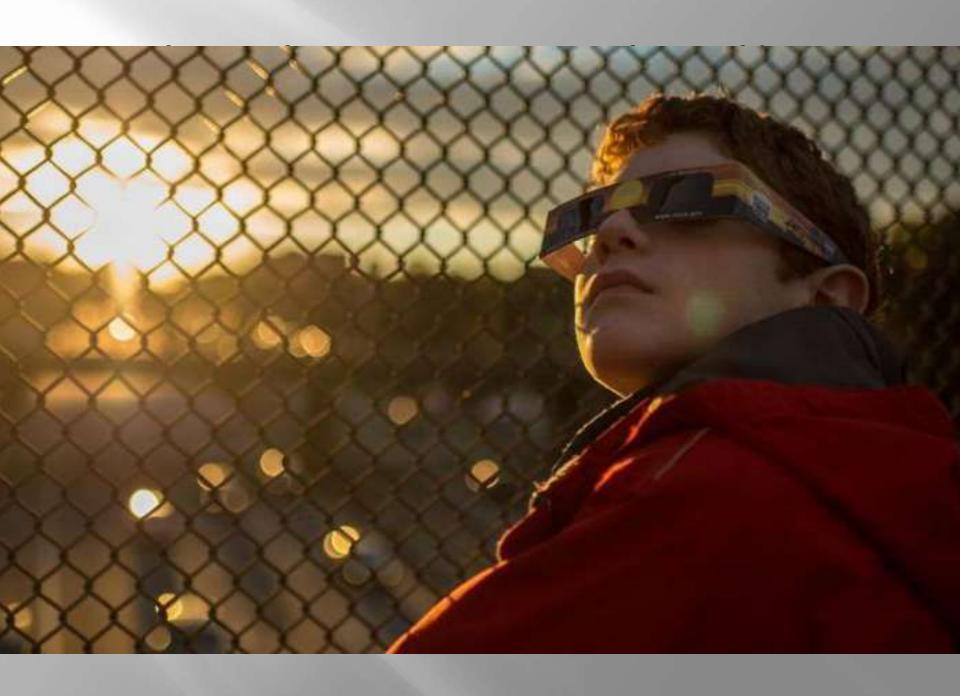
TOTAL SOLAR ECLIPSE 2017



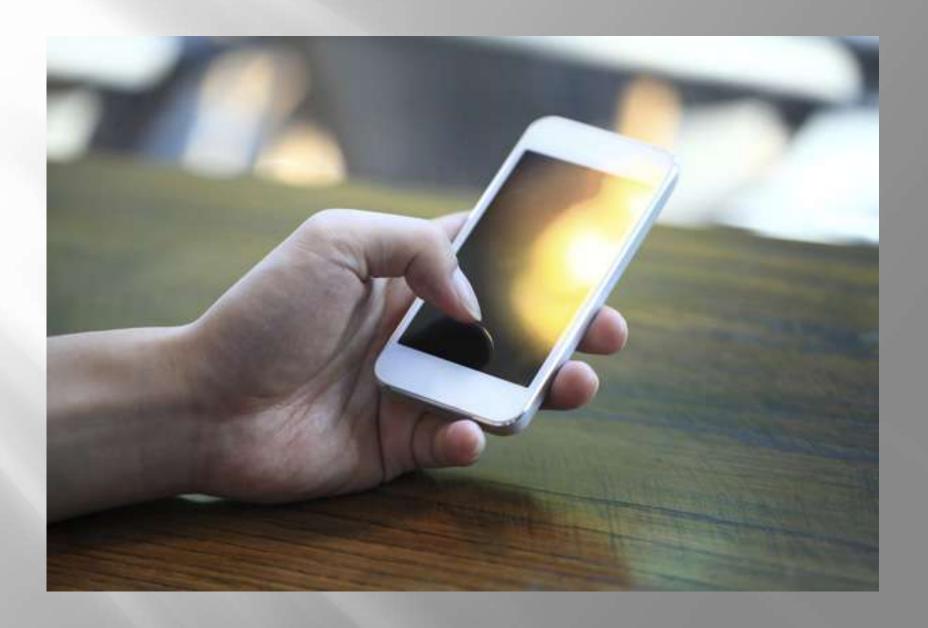
Why is it special?

- It's a fairly rare celestial event especially to be in the path of totality! (We are at ~93% coverage)
- The last total solar eclipse seen in the continental U.S. was on September 10, 1923
- The last total solar eclipse to follow a similar path across the continental U.S. was on June 8, 1918.
- The next total solar eclipse to follow a similar path through the continental U.S. will occur on August 12, 2045

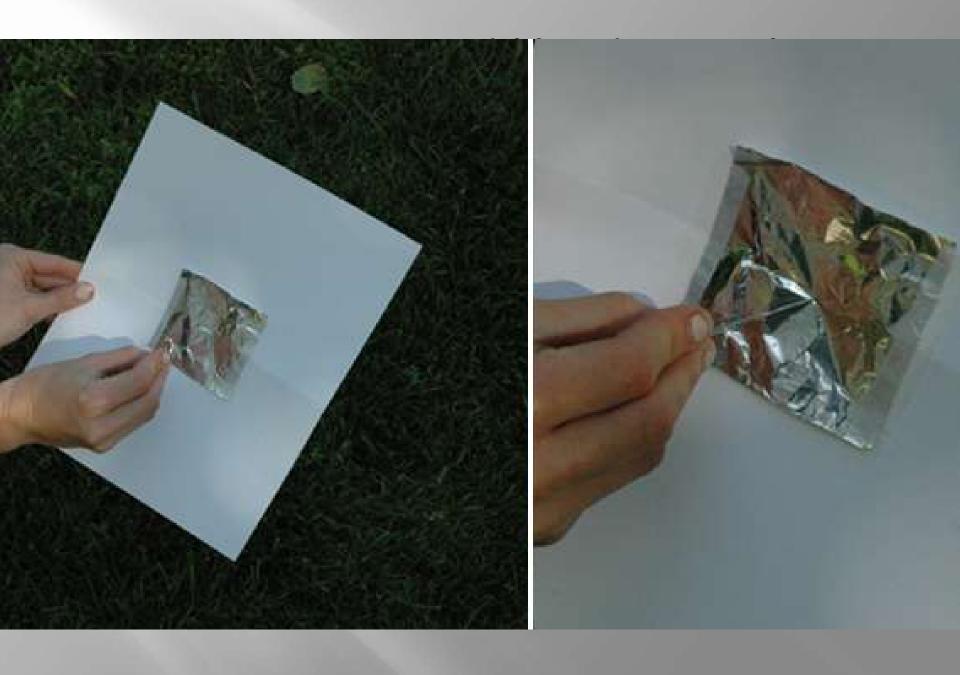




. Eclipse Glas. Flip your ph camera aroun selfie mode ano alder over your







When does the eclipse begin?

Time	Phase	Partial Eclipse begins The Moon touches the Sun's edge.	Period 1	7:30 to 8:28
			Period 2	8:33 to 9:31
10:23 am			Period 3	9:36 to 10:34
Mon, Aug 21			Lunch A - Grade 9/12	10:39 to 11:09 11:14 to 12:12
11:47 am		Maximum Eclipse Moon is closest to the center of the Sun.	Period 4	88179999 N 7-56 Statement
Mon, Aug 21			Period 4 Lunch B - Grade 10/11	10:39 to 11:37 11:42 to 12:12
1:14 pm		Partial Eclipse ends The Moon leaves the Sun's edge.	Period 5	12:17 to 1:15
Mon, Aug 21			Period 6	1:20 to 2:18
			Period 7	2:23 to 3:21

- Begins at the end of 3rd Period.
- Peaks during Lunch B or 4th Period (if you have Lunch A).
- Ends at the end of 5th Period.

Today...

- We will create our pinhole projectors with thick paper, tin foil, foam-core and a pin.
- Follow the steps below:
 - 1. Fold the paper in half and cut a small square hole in the center.
 - 2. Unfold the paper and tape a square of tin foil over the square opening. Make sure the edges are all taped down.
 - 3. Place your foil on top a piece of foam-core and use a pin to poke a hole in your tin foil square. Make sure you hole is even and smooth.
 - 4. If you complete one projector, create a second one... this time use the pin to punch multiple holes and create a design in the tin foil.

Pinhole Projector Demo & Exemplars

Before we go outside... Remember:

- We will set up a piece of paper on the ground and use our pinhole viewers to create an image of the sun on the ground.
- We will view and photograph the eclipse by looking at our projections on the ground – we will NOT look at or photograph the sun.

Your photographs will look something like this...

■ Take a photograph every 5-10 minutes and I'll show you how to create an animation!





Remember:

- NEVER LOOK AT THE SUN, EVEN DURING AN ECLIPSE!
- NUNCA MIRA EL SOL, INCLUSO DURANTE UN ECLIPSE!