

# THE GREAT AMERICAN SOLAR ECLIPSE 2017



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# What is a Solar Eclipse?



The MOON goes around the EARTH.



The EARTH goes around the SUN.



The SUN is very big and far away.



The MOON is much smaller, but closer.



So, from EARTH, the SUN and MOON look the same size.



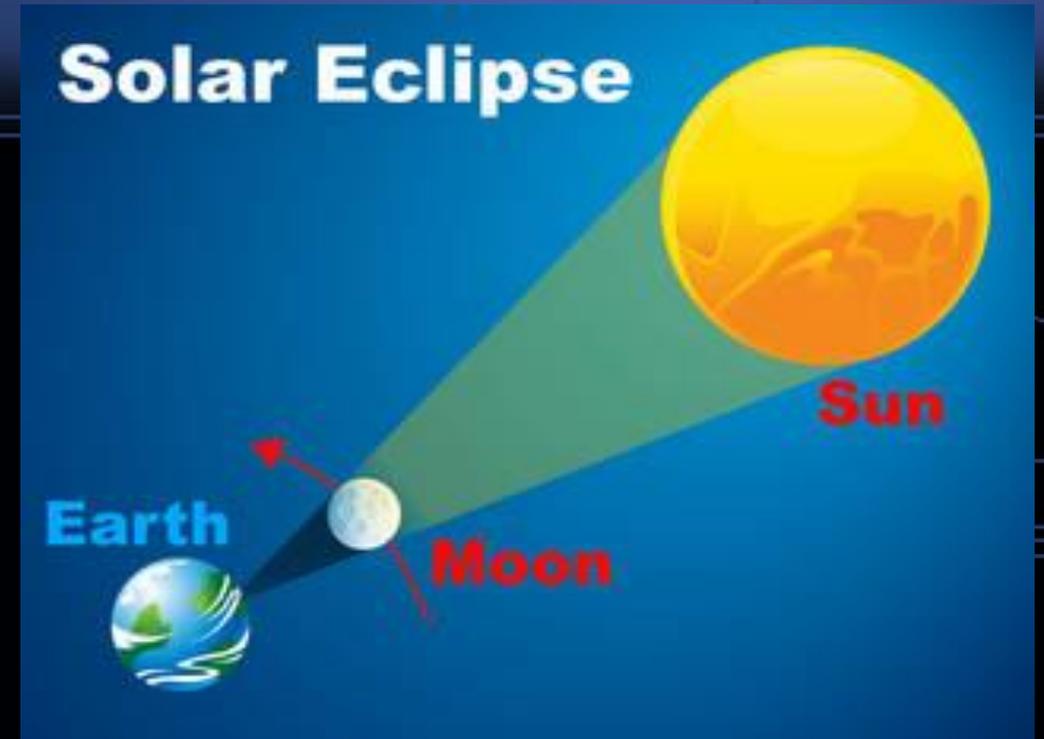
As the EARTH spins, the SUN and MOON look like they are moving across the sky.



And sometimes, the MOON passes right in front of the SUN.



When the MOON completely blocks the SUN, it is called a SOLAR ECLIPSE.



# Why is the Great American Solar Eclipse of 2017 so special?



A TOTAL ECLIPSE will be visible only in the United States.



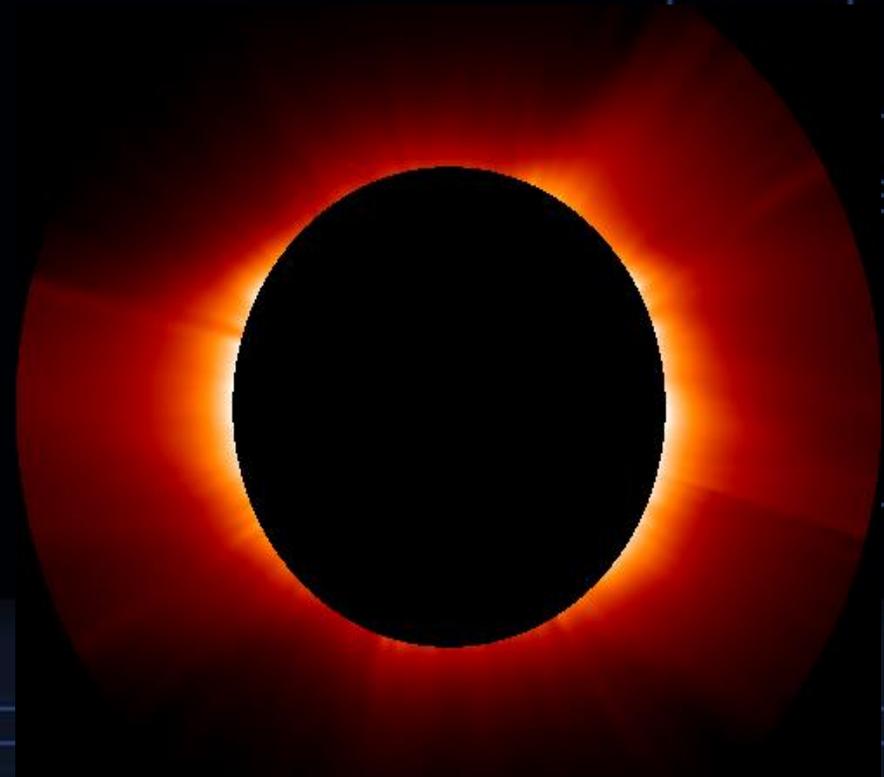
The UNITED STATES has not had a TOTAL SOLAR ECLIPSE in 26 years! And that was only seen by people in Hawaii.



The Sun's atmosphere is called the CORONA. You can Only see it during a TOTAL SOLAR ECLIPSE.



The next TOTAL ECLIPSE to pass across the UNITED STATES will be on April 8, 2024.



# Eclipse time for Hephzibah, GA



All of AMERICA will see a PARTIAL ECLIPSE, including HEPHZIBAH, GA.



The areas in the special path will see a TOTAL ECLIPSE. This is called the path of TOTALITY.



If you are watching in Hephzibah, GA, you will see the PARTIAL ECLIPSE around 2:40 pm.



**ALWAYS WEAR YOUR OFFICIAL SOLAR ECLIPSE APPROVED VIEWING GLASSES WHEN WATCHING A SOLAR ECLIPSE!**

# The Path of Totality



The path of TOTALITY goes through 12 states. Can you match the shape of each state with its name?

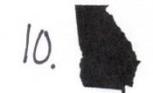


The 12 states included in the path of TOTALITY are:

- IDAHO
- NEBRASKA
- MISSOURI
- KENTUCKY
- WYOMING
- ILLINOIS
- NORTH CAROLINA
- OREGON
- KANSAS
- TENNESSEE
- GEORGIA
- SOUTH CAROLINA

## SUPER-DUPER STATE SHAPES

The path of TOTALITY goes through these 12 states. Can you match the shape of each state with its name? You can check your answers on the map on the next page.



Idaho

Nebraska

Missouri

Kentucky

Wyoming

Illinois

North Carolina

Oregon

Kansas

Tennessee

Georgia

South Carolina

Why did the moon pass in front of the sun?



To get to the other side!

# Check Your Answers

## SUPER-DUPER STATE SHAPES

The path of TOTALITY goes through these 12 states. Can you match the shape of each state with its name? You can check your answers on the map on the next page.

1. 	Idaho	7. 
2. 	Nebraska	8. 
3. 	Missouri	9. 
4. 	Kentucky	10. 
5. 	Wyoming	11. 
6. 	Illinois	12. 
	North Carolina	
	Oregon	
	Kansas	
	Tennessee	
	Georgia	
	South Carolina	

Why did the moon pass in front of the sun?

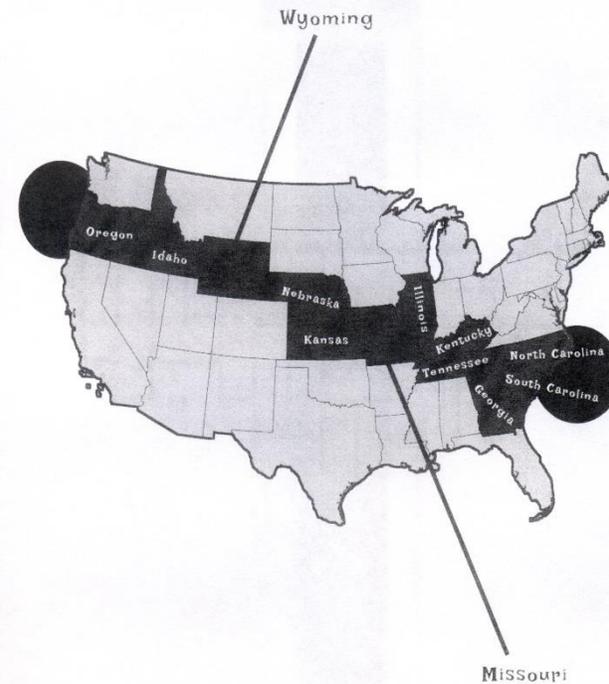


To get to the other side!

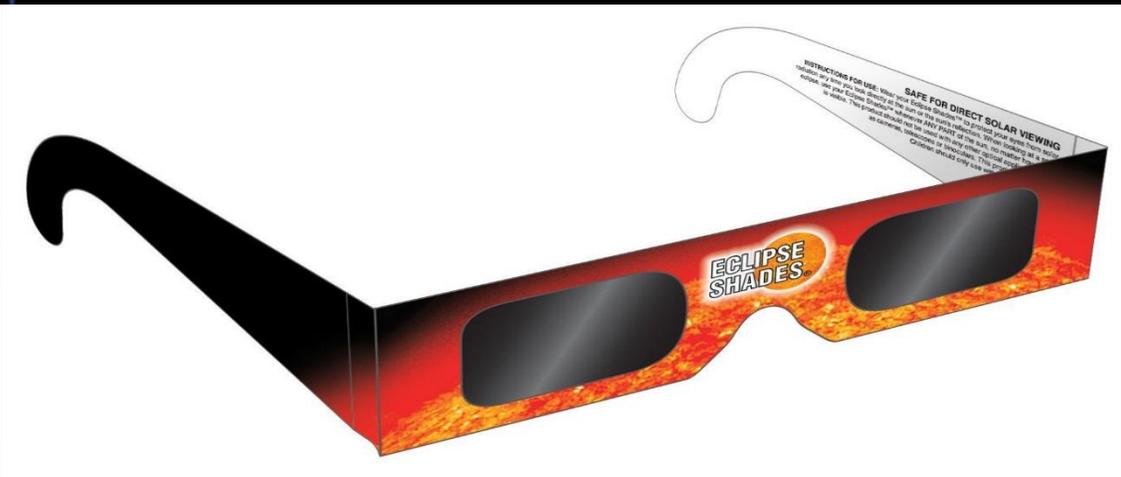
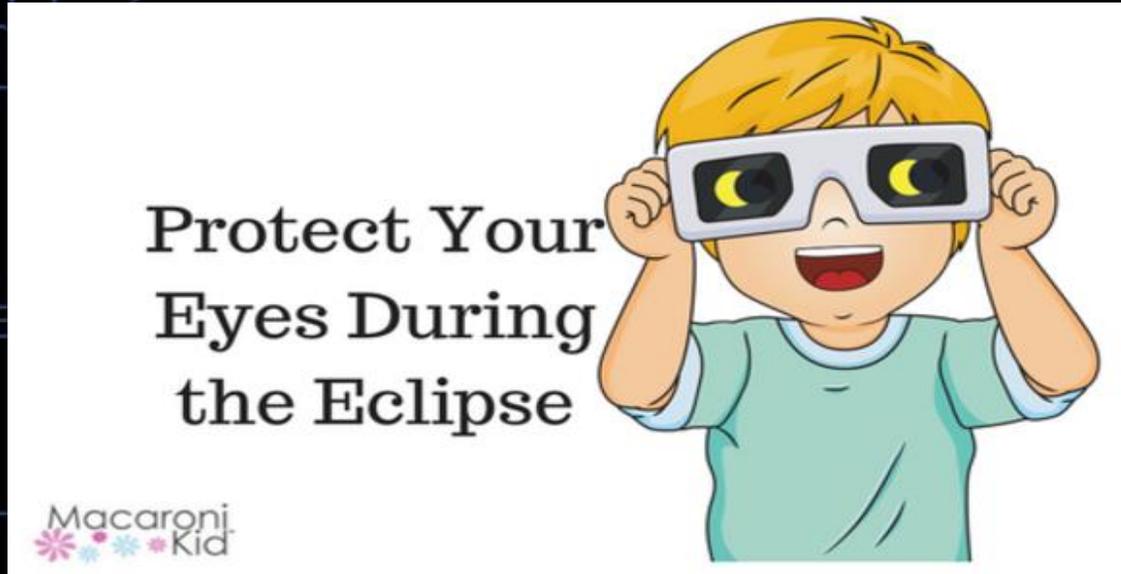
## How many states do you know?

Label as many states as you can on this map of the U.S.

If you can get all 48, you're a state expert!



# Keep Safe!



NEVER look at the SUN during a SOLAR ECLIPSE without SOLAR ECLIPSE APPROVED protective glasses.



REGULAR SUNGLASSES are not APPROVED for a SOLAR ECLIPSE.



NEVER look at the SUN during a SOLAR ECLIPSE with BINOCULARS, a TELESCOPE or a CAMERA.



The SAFEST way to view the SOLAR ECLIPSE is by using a PINHOLE PROJECTOR or by WATCHING IT ON TV or the INTERNET.

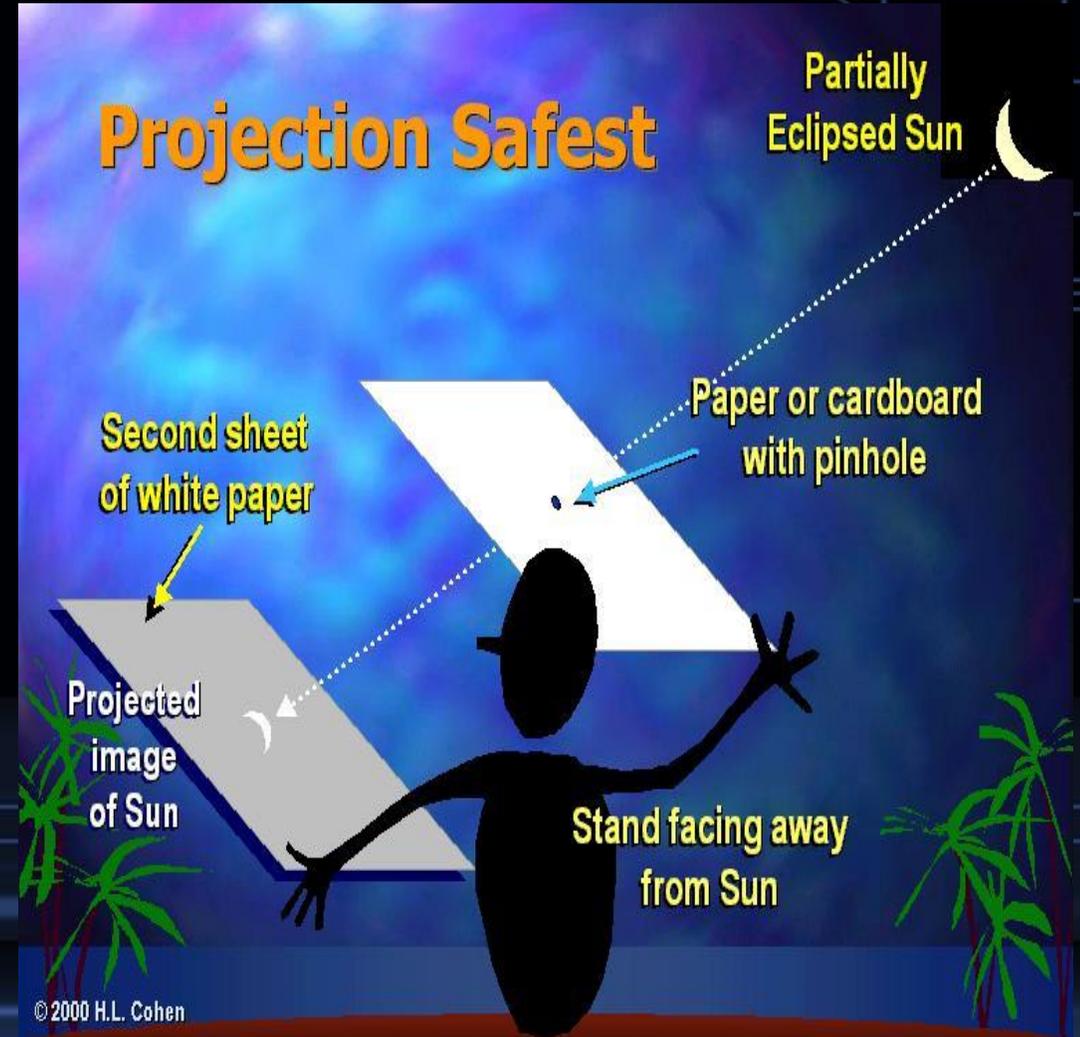


ALWAYS make sure you are with your PARENTS at all times while looking at the SOLAR ECLIPSE.

# Safest Way To View A Solar Eclipse: Make A Pinhole Projector Using Paper Plates, Paper, Or Cardboard

Using two paper plates, pieces of paper, or pieces of cardboard, you can project an image of the Sun during the Solar Eclipse that will not hurt your eyes.

- 1) To make a quick version of the pinhole projector, take one paper plate, piece of paper, or piece of cardboard and make a tiny hole in the middle of it using a pin or thumbtack. Make sure the hole is round and smooth.
- 2) With your back towards the Sun, hold the paper plate, piece of paper, or piece of cardboard above your shoulder allowing the Sun to shine on the paper.
- 3) The second paper plate, piece of paper, or piece of cardboard will act as a screen. Hold it at a distance, and you will see an inverted image of the Sun projected on the paper screen through the pinhole.



# Books And Videos

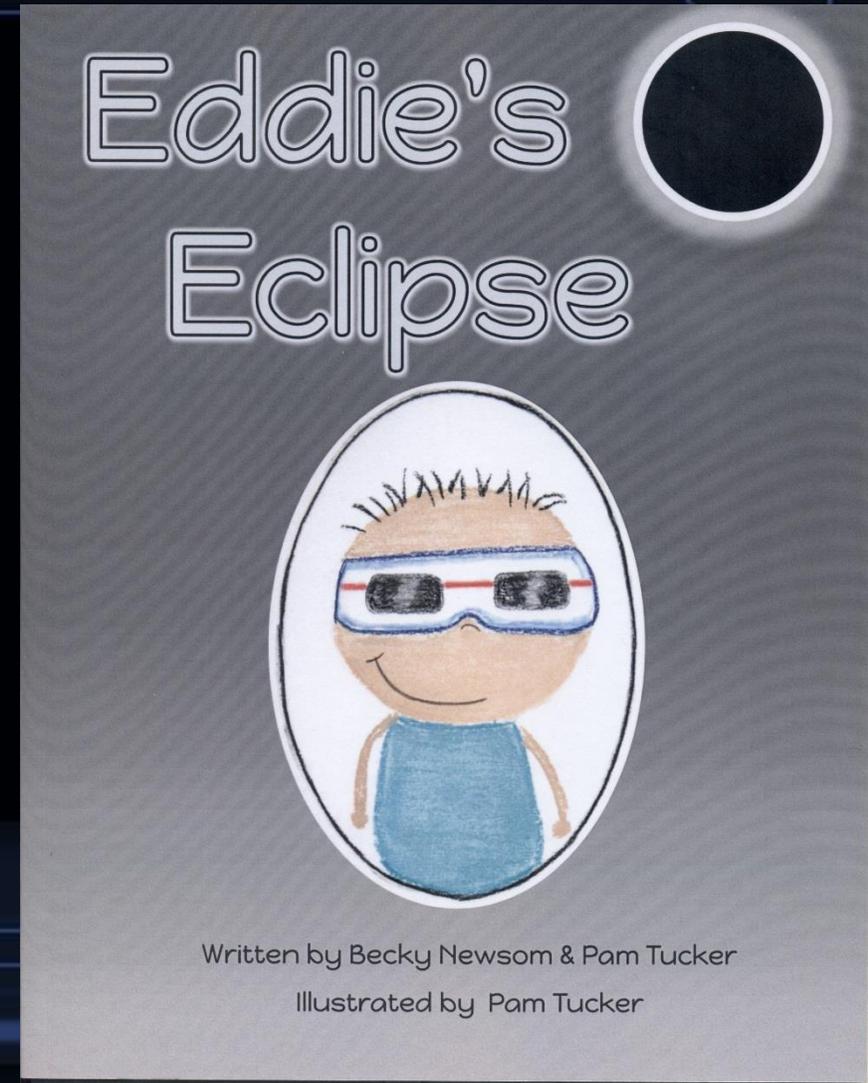
➤ If your library has the book, EDDIE'S ECLIPSE, ask your library media specialist to read it aloud.

➤ Watch TOTAL SOLAR ECLIPSE EXPLAINED FOR KIDS!

[https://youtu.be/O\\_ATuYNxutY](https://youtu.be/O_ATuYNxutY)

➤ Listen to the SOLAR ECLIPSE SONG:

<https://youtu.be/4RrTzD5PRow>



# Eclipse Story Starters

Use these story starters to tell funny eclipse stories. Find another person to take turns adding to the story. Keep going as long as you can!

- Once Upon a time, some kids went to see the eclipse, but when it happened, the sun fell from the sky and....
- Three days after the solar eclipse, something very strange happened. We all felt – unusual. And then, we all turned into...
- It was a dark and stormy night – the night before a total solar eclipse. We heard a noise! It sounded like...