

# Total Solar Eclipse

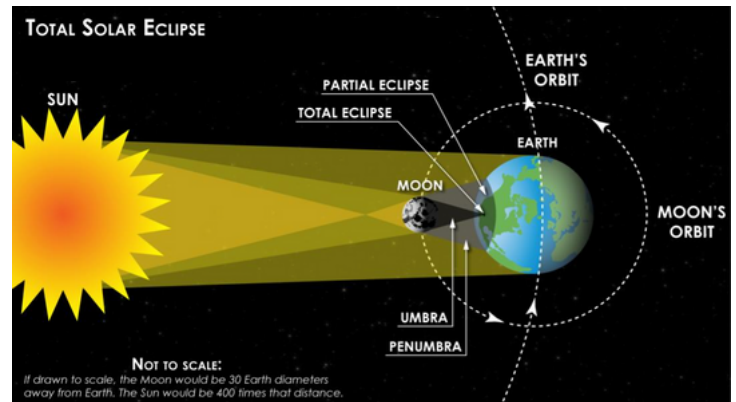
Monday, April 8th, 2024

On April 8th, 2024, parts of the United States will experience a total solar eclipse. After the eclipse on the 8th, the next solar eclipse visible in the U.S. won't be until 2044!

This flyer contains information about this exciting event, and resources to help you and your family make the eclipse a fun learning event.

## What is a Solar Eclipse?

A solar eclipse is a type of eclipse that occurs when the Moon passes between the Sun and the Earth, and the Moon fully or partially blocks ("occults") the Sun.



## What Will You See?

It depends on where you are! The path of totality passes through the U.S., and those not in this path will see varying degrees of a partial eclipse. Find an eclipse map here: [bit.ly/2024Path](https://bit.ly/2024Path)

## Great American Eclipse

Explore the spectacular cosmic phenomenon of a total solar eclipse and follow scientists as they work to unlock secrets of our Sun in NOVA's *Great American Eclipse*, premiering April 3rd at 9PM ET on PBS.

[bit.ly/AmericanEclipse3](https://bit.ly/AmericanEclipse3)



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*Here are some ideas for fun projects to try at home! If you would like to learn more about the science behind eclipses, visit [PBSLearningMedia.org](https://PBSLearningMedia.org)!*

## Make an Eclipse Projector

Make your own eclipse projector using a cardboard box, a white sheet of paper, tape, scissors, and aluminum foil. Visit the link below for a video tutorial as well as other ideas for how to safely view an eclipse.

[bit.ly/ViewSafely](https://bit.ly/ViewSafely)



## Make a Time Capsule!

On August 23rd, 2044, there will be another total solar eclipse visible across the United States. What do you think the world will be like then? Create a time capsule with newspaper clippings, photos, and other important artifacts for your future self!



## Not in the Path of Totality?

Not to worry! On April 8th, 12 PM ET, join NOVA for a virtual field trip prior to the eclipse with NASA scientists at the Kerrville Eclipse Festival in Texas!

[bit.ly/NOVAeclipse2024](https://bit.ly/NOVAeclipse2024)

## Safety First!

Never look at the sun directly without appropriate eyewear. Eclipse glasses and solar viewers are great options for protecting your eyes during an eclipse. Visit the link below for a list of vetted suppliers.

[bit.ly/SolarViewers](https://bit.ly/SolarViewers)