

Preparation for the Total Eclipse

Do your homework: Visit a local library for information about the sun, eclipses, astronomy, the sky and telescopes.

Make a plan: Talk to your family, friends and teachers. See what they plan to do.

Decide on best viewing location where the sun will not be obstructed; consider more than one location in case there are cloudy conditions.

Know the exact eclipse times for each location.

Collect equipment on the checklist in plenty of time.

Sample equipment list:

Viewing equipment: eclipse glasses, pin-hole projectors, camera (with proper filter if you plan to photograph the sun)

Personal items: sunglasses, sun screen, water, a chair, an umbrella, snacks & drinks (It will be August and it will be warm)

Support items: timesheet with exact eclipse times, watch, radio, map, thermometer and notebook to record events.

Total Solar Eclipse Websites

stlouiseclipse2017.org

eclipse2017.org

greatamericaneclipse.org

shadowandsubstance.org

VIEWING SAFETY

Never view the sun with the naked eye or by looking through optical devices such as binoculars or telescopes!

This is critical! Why? You may have taken a magnifying glass out into the sun and burned leaves with it. If so, you'll remember that when sunlight is focused onto a small spot with a lens, it gets hot enough to start a fire. So understand this: you have a lens just like that in your eye. If you look at the sun, your eye's lens will concentrate the sun's light and focus it onto a very small spot on the back of your eye, on the retina. This literally burns your eye, causing permanent eye damage or blindness. In addition, there are no pain sensors inside your eye—so you won't even know it's happening!

During a total solar eclipse, there are a few short moments when it's safe to look directly at the sun. This is the **ONLY** time when the moon completely blocks the face of the sun. Called *totality*, it lasts from a few seconds to a few minutes. The instant the moon begins to move off the sun's face, you must go back to using safe viewing techniques.

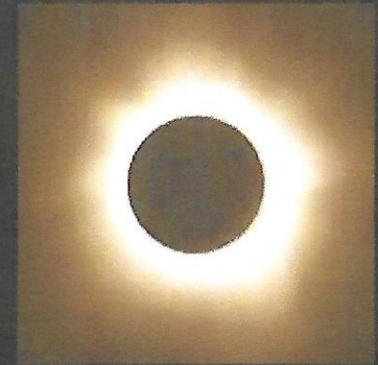
Seeing a total eclipse can in fact be done quite safely with proper eye protection. The only way to safely look at the sun when it is not in total eclipse is through approved filter material designed and marketed expressly for direct solar viewing. Special solar eclipse viewing glasses with the City of Herculaneum logo will be available as eclipse day approaches.

Visit our Facebook Page

Total Solar Eclipse 2017 - Herculaneum, Missouri

Find us on

facebook



Total Solar Eclipse 2017 - Herculaneum



The Great American Solar Eclipse
Coming to Herculaneum on
Monday August 21, 2017



The Great American Eclipse Monday August 21, 2017

For the first time since 1979 a total solar eclipse will be visible from the contiguous United States, and the moon's shadow track will only be visible in the United States. This solar eclipse is being called "The Great American Eclipse" for this very reason. Residents of the lower 48 states will have the unique opportunity to spot the eclipse from their homes, and the 12 million residents who live in the path of totality (or the shadow track) will be able to observe the total eclipse right from their backyards. The eclipse will pass from the Pacific Ocean to the Atlantic Ocean and the path of totality will pass through 12 states.

DID YOU KNOW.....

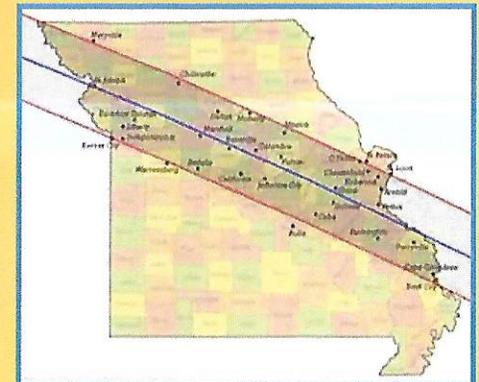
The last total solar eclipse to occur in the Herculaneum area was in 1442!

The next total solar eclipse to occur in the Herculaneum area will be in 2505!

1. This will be the first total solar eclipse in the continental U.S. in 38 years. The last one occurred February 26, 1979. Totality crosses only through the US, no other country. It has been coined the "Great American Eclipse".
2. The path will cut across Missouri from St. Joseph in the west to Herculaneum in the east. About half of both Kansas City (pop. = 464,000) and Saint Louis (pop. = 318,000) lie within the path of totality. The remaining population is only a 30 minute drive to the path!
3. Some of the eastern Missouri towns and cities in the path include: Farmington, Festus, Herculaneum, Hermann, Hillsboro, Pacific, Perryville, Potosi, Ste. Genevieve, St. Clair, Sullivan, Warrenton, Washington, Union and large areas of St. Charles and St. Louis Counties,
4. A spot near Carbondale, Illinois will experience the longest duration of Totality, more than 2 minutes and 40 seconds. Missouri will experience as much as 3 hours of the partial eclipse and 2 minutes 30 seconds of totality!
5. **Herculaneum will experience 2 minutes and 32 seconds of totality.**
6. Totality is safe to look at. During the time the Moon's disk covers that of the Sun, it's safe to look at the

eclipse. In fact, to experience the awesomeness of the event, you must look at the Sun without a filter during totality.

7. You won't need a telescope. One of the great things about the total phase of a solar eclipse is that it looks best to naked eyes. The sight of the corona surrounding the Moon's black disk in a darkened sky is unforgettable.
8. You may experience strange things. Apparent nightfall, dusk to dawn lights may come on. Shadows will look eerie. Breezes may vanish and birds may come in to roost. A 10°-15° F drop in temperature is not unusual.



Herculaneum High School August 21, 2017	
Partial Start	11:49:46 am
Total Start	1:17:06 pm
Total Maximum	1:18:22 pm
Total End	1:19:38 pm
Partial End	2:44:37 pm
Total Duration	2m 32s

