



# JOURNAL EXERCISE

*Journal your family eclipse experience*

Describe your eclipse experience. Make sure to include as many details as possible like who you watched it with, where you watched, how old everyone is, and fun details from the day.

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Draw a picture here or take a picture of your eclipse day!

The next total solar eclipse will be on August 23, 2044. How old will you be? Now, make some predictions about your future self. What will your job be? Where will you be living? Be creative!

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Don't be left in the dark! Submit your photos from the #TotalSolarEclipse to the Park District of Ottawa County and we'll share them on our Facebook page. Text your photos to (419) 635-8212 and we'll #SeeYouOnTheDarkSide



## Eclipse Joke

**Q:** Why did the moon feel shy during the eclipse?

**A:** Because it was in the shadow!



# SOLAR ECLIPSE

## Family Viewing Guide



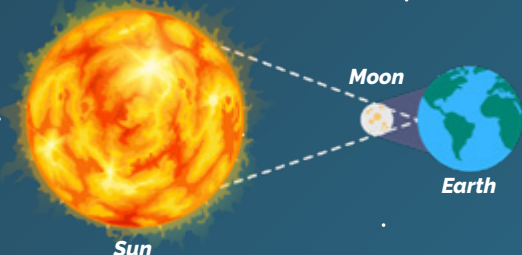
### What is a Solar Eclipse?

A solar eclipse happens when the Moon passes between the Sun and Earth. A partial solar eclipse occurs when the moon blocks only part of the Sun's light. **A total solar eclipse is when the moon blocks all of the Sun's light.** As the Moon blocks the Sun's light, it casts a shadow on part of the Earth. The Moon's shadow creates a trail as the Earth rotates. This trail is called the path of totality.

During the April 8, 2024, total solar eclipse, Ottawa County will be in the path of totality. In that path, the Moon completely blocks the Sun's light for nearly four minutes and it looks like nighttime! This total darkness allows scientists to study the Sun's atmosphere, called the corona. Normally, the corona is very dim, but total solar eclipses give us the chance to view the corona's streams and ribbons.

Source: NASA Space Place

TOTAL SOLAR ECLIPSE



Sun

Earth



# SAFE VIEWING TIPS

## for a Solar Eclipse

Source: [www.science.nasa.gov](http://www.science.nasa.gov)

- Inspect your eclipse glasses or handheld solar viewer carefully **BEFORE** the solar event begins. If scratched, torn, punctured, or otherwise damaged, **DO NOT USE IT!**
- Cover your eyes **BEFORE** looking up! **DO NOT** remove your glasses while looking at the sun.
- Remove your solar filter **ONLY** when the Moon completely covers the Sun's bright face and it suddenly gets dark. As soon as the sun begins to reappear, immediately replace your solar viewer to look at the remaining partial phases.
- **DO NOT** use eclipse glasses or handheld viewers with cameras, binoculars or telescopes. Those require different types of solar filters. **DO NOT** look at the Sun through a camera lens, telescope or binoculars while wearing eclipse glasses or using a handheld solar viewer.
- Be aware of your surroundings and other potential hazards. Observe the solar event from even ground, always supervise children and be mindful of weather conditions and nearby pets and wildlife.



# INTERESTING FUN FACTS

## about the sun

Source: [www.science.nasa.gov](http://www.science.nasa.gov)

- The Sun is believed by scientists to be 4.5 billion years old. It is roughly 93 million miles from Earth and it is the largest object in our solar system. The hottest part of the sun is its core, where temperatures top 27 million degrees Fahrenheit.
- Like all stars, the Sun will eventually run out of energy. When it starts to die, the Sun will expand into a red giant star engulfing Mercury, Venus and possibly Earth. Scientists predict the Sun will last another 5 billion years.
- The Sun is a dynamic star, which means it is constantly changing and sending energy out into space. The science of studying the Sun and its influence throughout the solar system is called heliophysics.



# ECLIPSE CRAFT:

## Make a UV bracelet

### MATERIALS INSIDE: INSTRUCTIONS:

(Enough to make 4 bracelets)

- UV beads
- Stretch Magic Cord
- Scissors
- Sunlight

Tie a thick knot on one end of a Stretch Magic Cord. Thread your beads onto the Stretch Magic Cord, checking to make sure they do not fall off. Create your own special design with the beads. Tie a thick knot on the other end of the Stretch Magic Cord. Tie the finished bracelet around your wrist and carefully trim off any excess. Wear your bracelet on a sunny day and watch the UV beads change color!



### Eclipse Joke

**Q:** How do you prepare a space party during an eclipse?

**A:** You planet!



# ECLIPSE CRAFT ACTIVITY:

## D.I.Y. Eclipse Cereal Box Viewer

Source: [www.nasa.gov/stem-content](http://www.nasa.gov/stem-content)

### MATERIALS NEEDED:

- A cereal box
- Heavy-duty foil
- A piece of white cardboard (cut to fit in the bottom of the cereal box)
- Construction paper (to cover the cereal box)
- A small nail (3mm in diameter)
- Markers
- Scissors
- Tape or glue

### DIRECTIONS:

Secure a piece of white cardboard snugly in the bottom of the empty cereal box. Cut the top of the cereal box, removing both ends and leaving the center intact. Put a piece of tape across the center of the top to securely hold it closed. Tape a piece of heavy-duty foil covering one of the openings at the top of the cereal box. The other opening will remain open for viewing. Using a small nail, push a hole in the foil. Cover the entire box with construction paper, leaving the single viewing opening and the foil uncovered. The finished box should be held with the pin-hole side facing the sun. With your back facing the sun, look through the viewing opening. A tiny image of the sun can be seen projected on the white paper inside the box. **NEVER LOOK DIRECTLY AT THE SUN!**



### Eclipse Joke

**Q:** What is the Sun's favorite dance during an eclipse?

**A:** The moonwalk!

# MORE TO EXPLORE

## Additional Eclipse resources

- **VISIT YOUR LOCAL LIBRARY** to learn more about solar eclipses, astronomy and all-things outer space. A librarian's knowledge and access to resources is out-of-this-world!
- **TOUR A PLANETARIUM.** The Ritter Planetarium, located on the main campus of the University of Toledo, is outfitted with a digital projector and surround sound. The Ritter Planetarium offers public programs on the weekends. Learn more at [www.utoledo.edu/nsm/rpbo](http://www.utoledo.edu/nsm/rpbo). The Sidney Frohman Planetarium, located behind Sandusky High School at 2130A Hayes Avenue, Sandusky, 44870-4740, offers a variety of programming. Visit [www.scs-k12.net/SanduskyPlanetarium.aspx](http://www.scs-k12.net/SanduskyPlanetarium.aspx) to learn more.
- **TAKE A (STORY) WALK.** Many nearby parks, libraries and nature preserves feature a Story Walk trail encouraging children and adults to read a story together while enjoying the outdoors. Stories are switched out regularly to reflect seasons and current events. One such trail is featured at Nehls Memorial Nature Preserve on Catawba Island where volunteers have installed "A Few Beautiful Minutes: Experiencing a Solar Eclipse," written by Kate Allen Fox and illustrated by Khoa Le.
- **TAKE ADVANTAGE OF ONLINE RESOURCES** such as [www.shoresandislands.com/solar-eclipse](http://www.shoresandislands.com/solar-eclipse) to learn more about all the many ways sites throughout Ottawa County are celebrating and honoring this special solar event.



### Eclipse Joke

**Q:** How does the man on the moon cut his hair?

**A:** Eclipse it!