






WHAT IS AN ECLIPSE?

On April 8, 2024, the United States will experience a solar eclipse. How much of the Sun will be blocked out depends on your location. Visit www.timeanddate.com/eclipse/solar/2024-april-8 and type in your town name to find out what to expect where you live.

There are different types of eclipses. Visit the links at right to learn more. Then match the eclipse to its definition by writing the correct letter in the box next to the name of each type of eclipse. Use the images to help you.

Resources:

- NASA: Phases, Eclipses and Supermoons
<https://moon.nasa.gov/moon-in-motion/phases-eclipses-supermoons/eclipses>
- NASA: Types of Solar Eclipses
<https://science.nasa.gov/eclipses/types/>
- NASA Space Place: Lunar Eclipses and Solar Eclipses
<https://spaceplace.nasa.gov/eclipses/en/>

Type of Eclipse		Definition
1. Total solar eclipse <input type="checkbox"/>		A. The Moon is between the Sun and Earth, casting a shadow on Earth, but the observer is located in the penumbra shadow, which only blocks part of the Sun.
2. Annular solar eclipse <input type="checkbox"/>		B. Earth is between the Moon and the Sun, but only a part of the Moon passes through Earth's shadow.
3. Partial solar eclipse <input type="checkbox"/>		C. Earth is between the Moon and the Sun, and the entire Moon passes through Earth's shadow, turning red because the sunlight reaching it must pass through Earth's atmosphere.
4. Total lunar eclipse <input type="checkbox"/>		D. The Moon is between the Sun and Earth, casting a shadow on Earth, and the observer is located in the umbra shadow, which completely blocks the Sun, causing the sky to get darker.
5. Partial lunar eclipse <input type="checkbox"/>		E. The Moon is between the Sun and Earth, casting a shadow on Earth, but because the Moon is far from Earth in its elliptical orbit, appearing smaller, it covers only the middle of the sun, leaving a bright "ring of fire" around the Moon's shadow.

FAMILIES! Visit <https://science.nasa.gov/eclipses/future-eclipses/eclipse-2024/> to get ready for the solar eclipse on April 8, 2024. It will be twenty years before another solar eclipse crosses North America. How old will your children be then? Consider writing about the April 8 eclipse as a keepsake to look back on during the next eclipse. Add pictures of your children enjoying the eclipse safely!