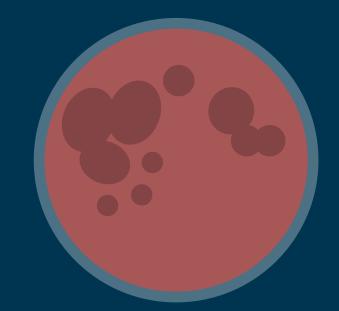
A Handy Guide to Total Lunar Eclipses

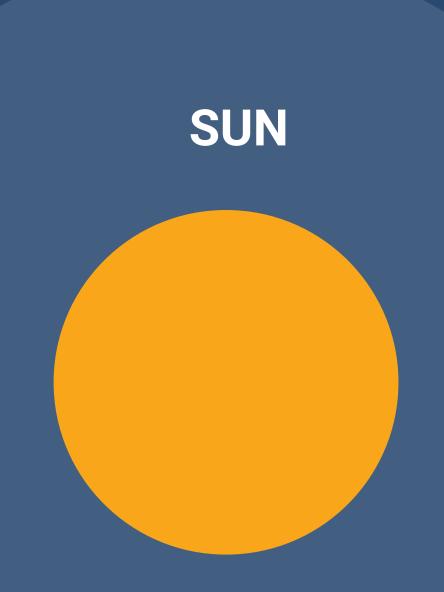
Blood Moon

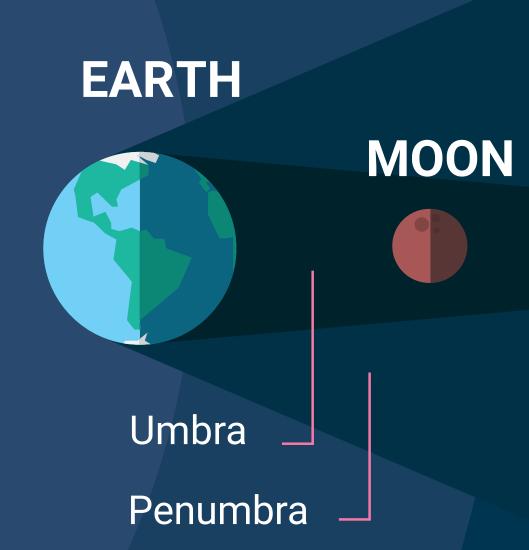
Total lunar eclipses are sometimes called "Blood Moons" because of the Moon's reddish glow during totality.



A Straight Line

A total lunar eclipse occurs when Sun, Earth and Moon form a straight line and the Earth casts its shadow on the Moon's surface.







Full Moon

Lunar eclipses happen only when there is a full Moon.



almost invisible.

0. Very dark eclipse. Moon

Shades of Red

The fully eclipsed Moon can take on different colors, ranging from pale orange to dark red depending on the quality of the Earth's atmosphere.

5 point scale to measure

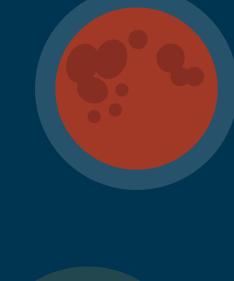
brightness of the Moon

during a lunar eclipse.



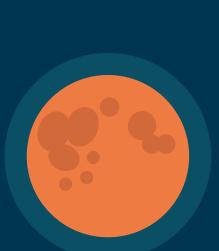
1. Dark eclipse. Gray or brown in color.





central shadow with lighter area on the outer edge.

2. Rust-colored eclipse. Dark



shadow may have a yellow edge.

4. Copper-red or orange eclipse.

Umbral shadow may have a

turquoise/ bluish edge.

3. Brick-red eclipse. Umbral



Did you know?

Night side

Everyone on the night side of the Earth can see the eclipse.

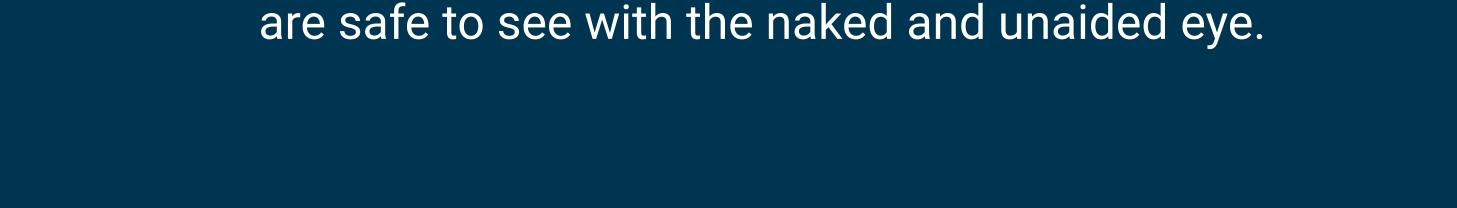
2.5 years

On average, a total lunar eclipse can be seen from any given location every 2.5 years.

Naked

eye

Unlike solar eclipses, observing a total lunar eclipse does not require any special equipment. Lunar eclipses



timeanddate.com/eclipse