

What is a lunar eclipse? Lunar eclipse occurs when?

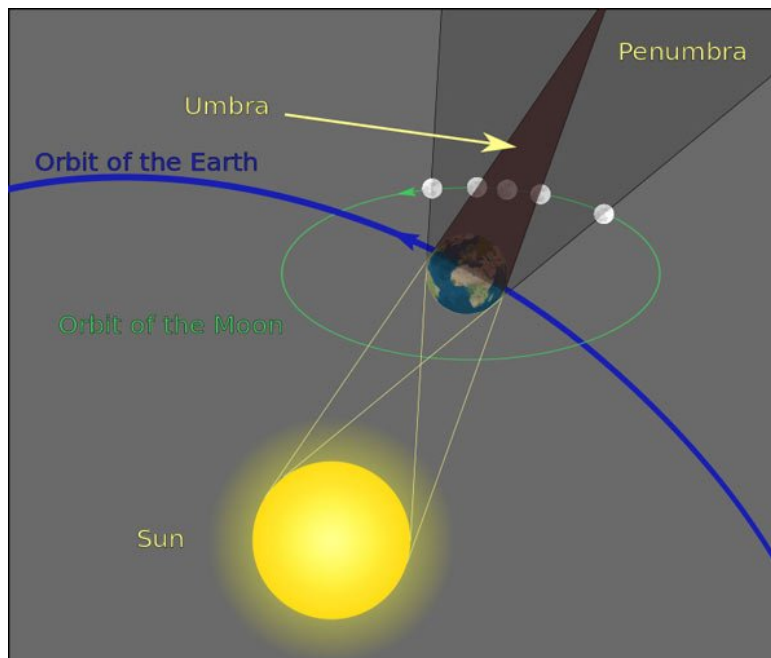
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What is a lunar eclipse?

First we need to know that the Moon does not emit light itself. We can see the only natural satellite of this Earth is because the Moon reflects the light of the Sun shining on it.

However, by the time the Moon, Earth, and the Sun align, the light of the Sun that reaches the Moon is blocked by the Earth, which means that the Moon is hidden behind the Earth's shadow so it becomes darker. The moment and phenomenon are called lunar eclipses.



3D illustration of lunar eclipse phenomenon.

Because the Earth is only partially blocking sunlight, a lunar eclipse can only occur when the Moon passes through certain parts of the Earth's shadow.

Thus, a lunar eclipse can only occur on the occasion of the full moon and when the Moon passes through some areas of the Earth's shadow.

Lunar eclipse classification

Total lunar eclipse

This happens when the Moon enters the shadow region (Umbra) of the Earth. At that time, the Moon will be completely obscured.

When the total lunar eclipse took place, only the long-wavelength Sun (red, orange) rays hit the Moon, short-wavelength light rays were blocked by the atmosphere at the edge of the Earth. The Moon reflects this red, orange light, when viewed from Earth we will see the Moon as dark red. This phenomenon is called the blood moon.



Total lunar eclipse.

The total lunar eclipse usually takes up to about 104 minutes (often recurring).

Half-moon lunar eclipse

This happens when the Moon enters the semi-dark region (Penumbra) of the Earth, so the brightness of the planet only decreases slightly. The partial lunar eclipse is difficult to observe with the naked eye.

Partial lunar eclipse

This astronomical phenomenon occurs when the Sun, the Earth and the Moon lie on a near-straight line. At that time, the Moon was partially missing due to only part of the shadow region of the Earth.

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