

Total Lunar Eclipse

November 7, 2022 • vajiramandravi.com



About Total Lunar Eclipse:

- An eclipse of the Moon (or lunar eclipse) can only occur at Full Moon – when Earth is located directly between the Sun and the Moon –, and only if the Moon passes through some portion of Earth’s shadow.
- That shadow is composed of two cone-shaped components –
 - The outer or penumbral shadow is a zone where the Earth blocks part but not all of the Sun’s rays from reaching the Moon.
 - The inner or umbral shadow is a region where the Earth blocks all direct sunlight from reaching the Moon.
- **Types:** Astronomers recognize three basic types of lunar eclipses –
- **Penumbral Lunar Eclipse:** The Moon passes through Earth’s penumbral shadow. These events are of only academic interest because they are subtle and hard to observe.
- **Partial Lunar Eclipse:** A portion of the Moon passes through Earth’s umbral shadow. These events are easy to see, even with the unaided eye.
- **Total Lunar Eclipse:** The entire Moon passes through Earth’s umbral shadow. These events are quite striking due to the Moon’s vibrant red colour during the total phase (totality).

Source: <https://vajiramandravi.com/current-affairs/total-lunar-eclipse/>

© Vajiram & Ravi. For personal use only.