



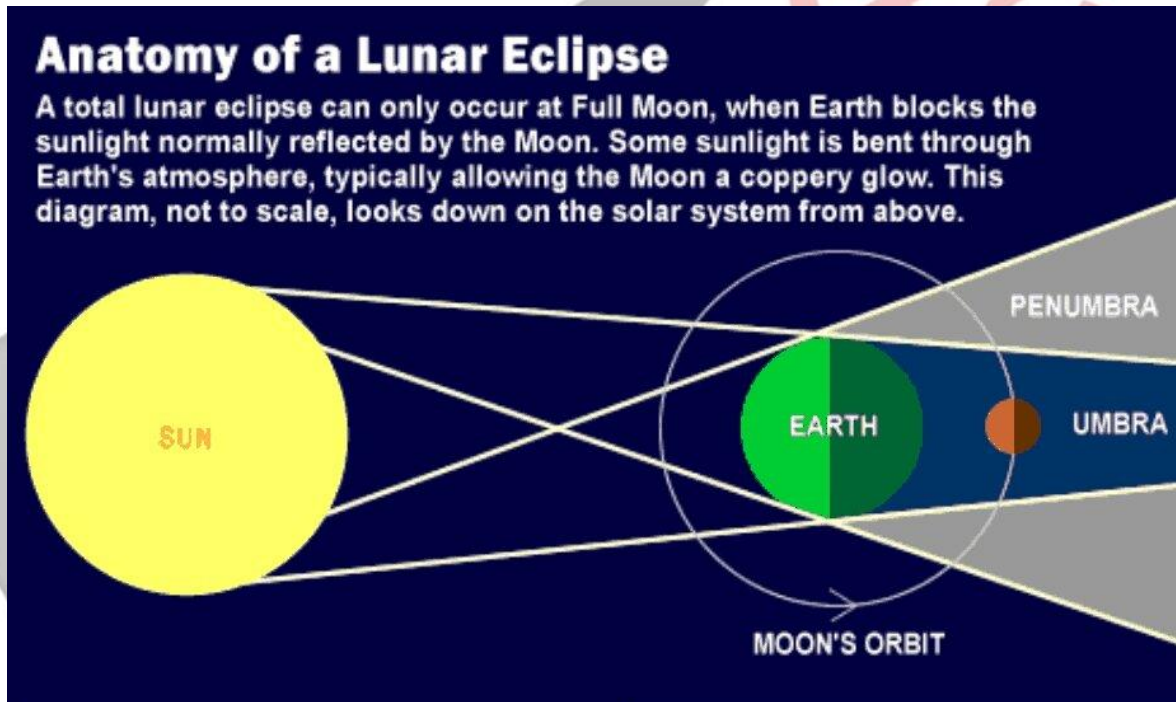
Total Lunar Eclipse and 'Blood Moon'

[Source: TH](#)

A **total lunar eclipse** is set to occur on the night of **7th September 2025**. At this time, the moon will be completely covered by the **Earth's shadow**, turning copper red (**Blood Moon**).

Total Lunar Eclipse

- **About:** A total [lunar eclipse](#) occurs when the **Moon passes entirely through Earth's umbra (darkest part of its shadow)**, with the **Earth, Sun, and Moon perfectly aligned**, completely blocking direct sunlight.



Blood Moon

- A **Blood Moon** refers to the **reddish or coppery appearance of the Moon** and occurs **only during total lunar eclipses**, which take place **two to three times a year**.
- During total lunar eclipses, the **Earth blocks direct sunlight** from reaching the Moon.
 - However, **sunlight passes through Earth's atmosphere**, where it is **bent (refraction) and scattered**.
 - The **blue wavelengths** of light are scattered away, while the **red and orange wavelengths** pass through and fall on the Moon's surface.
 - This gives the Moon its **distinctive deep red or reddish-orange colour**.

LUNAR ECLIPSES



Penumbral



Partial



Total

Read More: [Types of Eclipses](#)

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