

## Partial Lunar Eclipse 26 June 2010

On the 26 June 2010, we will be able to observe a partial lunar eclipse starting from 7:22 p.m. to 10:20 p.m.. In general, lunar eclipse will occur when the Moon passes the Earth's shadow during full Moon as shown in diagram 1.

The eclipse will start at 4:57 p.m. when the Moon start passing the penumbral shadow of the Earth (P1). But most observers will not be able to visually detect the eclipse since penumbral shadow is less dark and at the mean time the Moon is still below the horizon.

The eclipse can only be observed when the Moon is rising at 7.22 p.m. and it has been passing the umbra shadow of the Earth (U1) since 6.17 p.m.. The eclipse will be in maximum phase at 7:38 p.m.. The eclipse can be observed until 9:00 p.m. when the Moon totally leaves the Earth's umbra shadow (U4).

The eclipse will be lasting until 10:20 p.m. but couldn't be observed since it is at the penumbral (less dark shadow) phase.

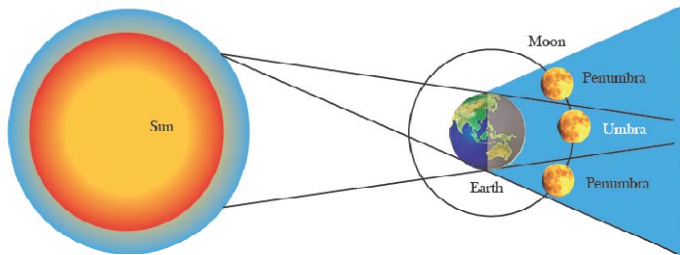


Diagram 1: Geometry of Lunar Eclipse

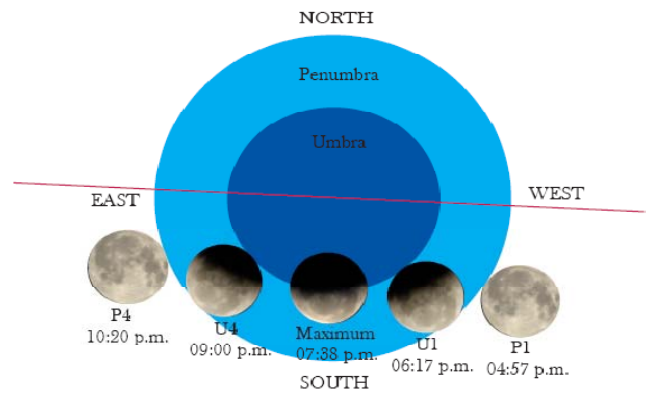


Diagram 2: Phases of Partial Lunar Eclipse on 26 June 2010

The phases of partial lunar eclipse are shown in diagram 2 and its related explanation is listed in Table 1.

Table 1 : Data on the Partial Lunar Eclipse on 26 June 2010

Phase	Remarks	Time
P1	Moon start passing "Penumbra"	04:57 p.m.
U1	Moon start passing " Umbra"	06:17 p.m.
Maksimum	Moon partially blocked by "Umbra"	07:38 p.m.
U4	Moon totally leaves "Umbra"	09:00 p.m.
P4	Moon start leaving "Penumbra"	10:20 p.m.

Note: Umbra – The darkest part of a shadow

Penumbra - The region in which only a portion of the occulting body is obscuring the light source

No matter where you are in Malaysia, as long as the sky is clear after sunset, looks southeast east direction for the moon. You can observe the eclipse with naked eye.

National Space Agency (ANGKASA) will be organizing a Partial Lunar Eclipse Observation Program at the **National Planetarium** on **26 June 2010** from **8:00 p.m.** to **10:00 p.m.**. Public are invited to observe the phenomena through a few telescopes that will be setup during the event.

The **first 300 visitors** attending the program will be given a tin of **Eclipse Mints**, contribution by The Wrigley Company (M) Sdn. Bhd..

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