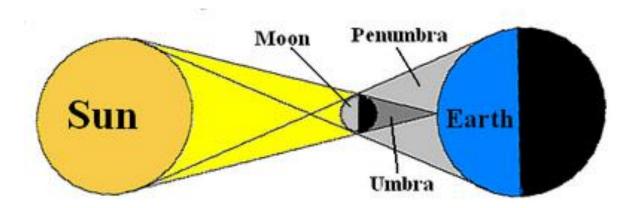
## **ECLIPSES**

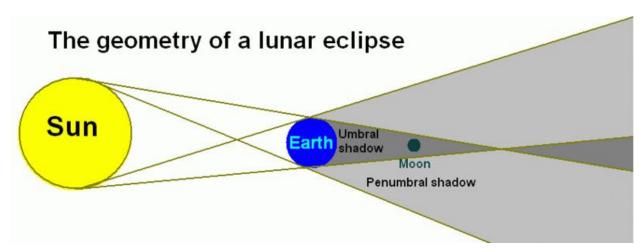
## **Solar Eclipse**

A solar eclipse can occur only during the **NEW MOON** phase. Within the umbra, a total eclipse of the Sun is seen, whereas within the penumbra, only a partial eclipse is seen.



## **Lunar Eclipse**

When the entire Moon passes into the Earth's umbra, a total lunar eclipse occurs. This is only possible during the **FULL MOON** phase.



Because the plane of the Moon's orbit is inclined approximately 5° to that of the Earth, eclipses do not occur every month. See below.

Side view of Moon's orbit and Earth's orbit

