



The Moon

Objective: Learn the phases of the Moon and how eclipses occur.

A decorative graphic consisting of two overlapping teal circles, with the larger one in the foreground and a smaller one behind it to the left.

Research

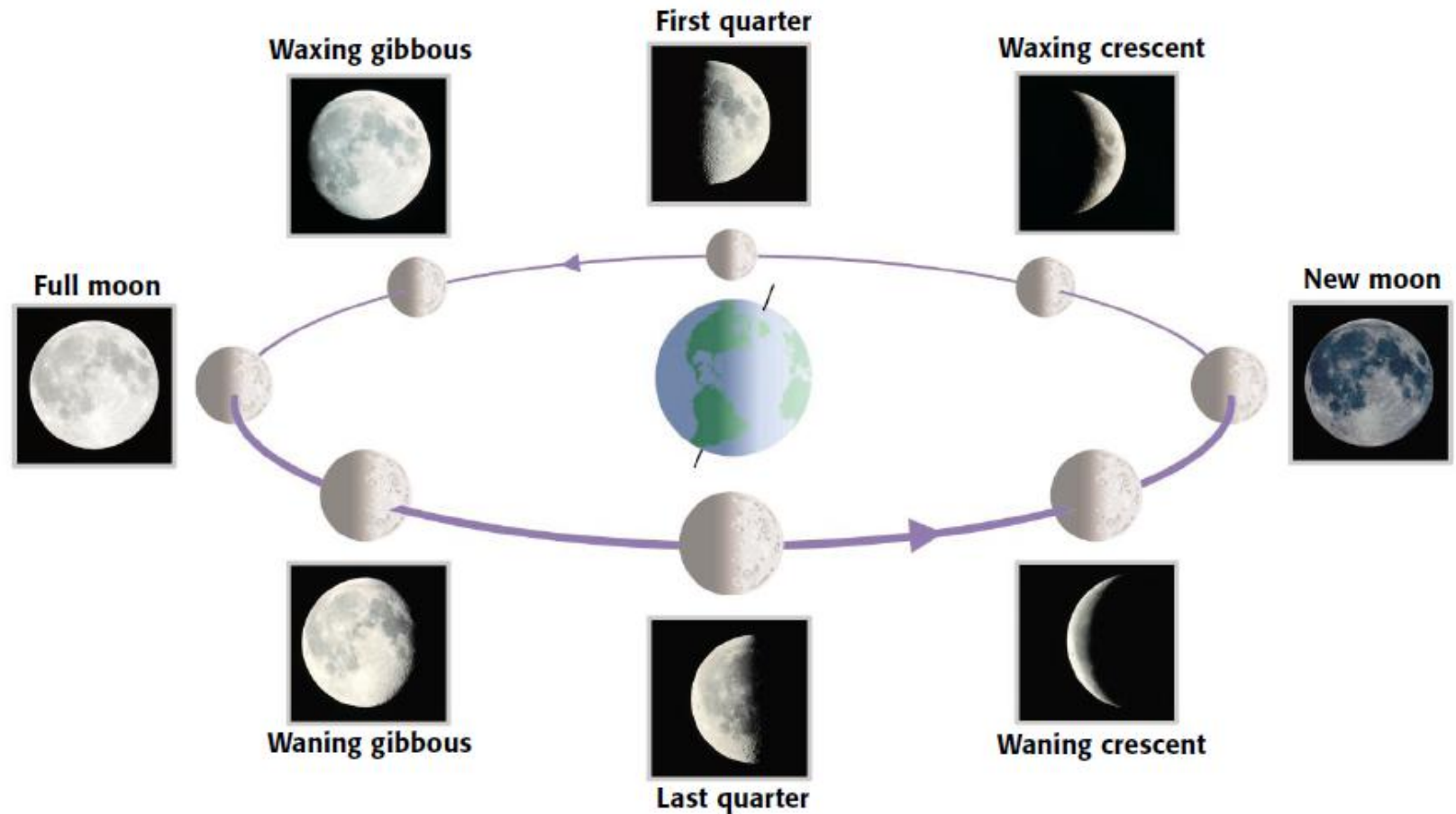
- Moon: rocky sphere in orbit 240,000 miles from Earth.
- Light seen on the moon: is reflected sunlight.
- Phases of the moon : change in reflected sunlight as the Moon revolves around the Earth.



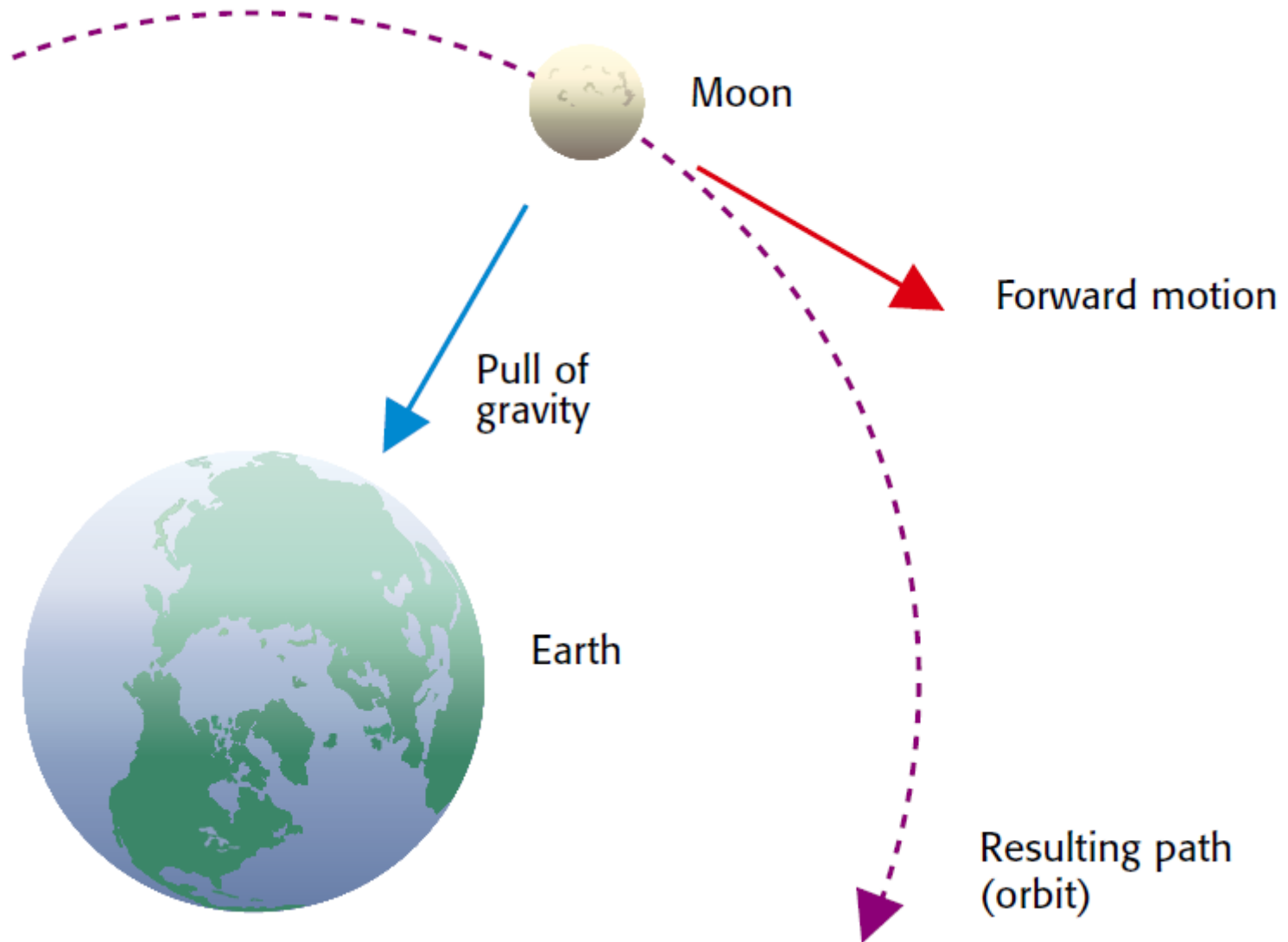
Research

- Waxing: when the reflected light from the Moon is increasing.
- Waning: when the reflected light from the Moon is decreasing.
- Crescent: less than half the Moon is lit.
- Gibbous: more than half the Moon is lit.

Phases of the Moon



Research

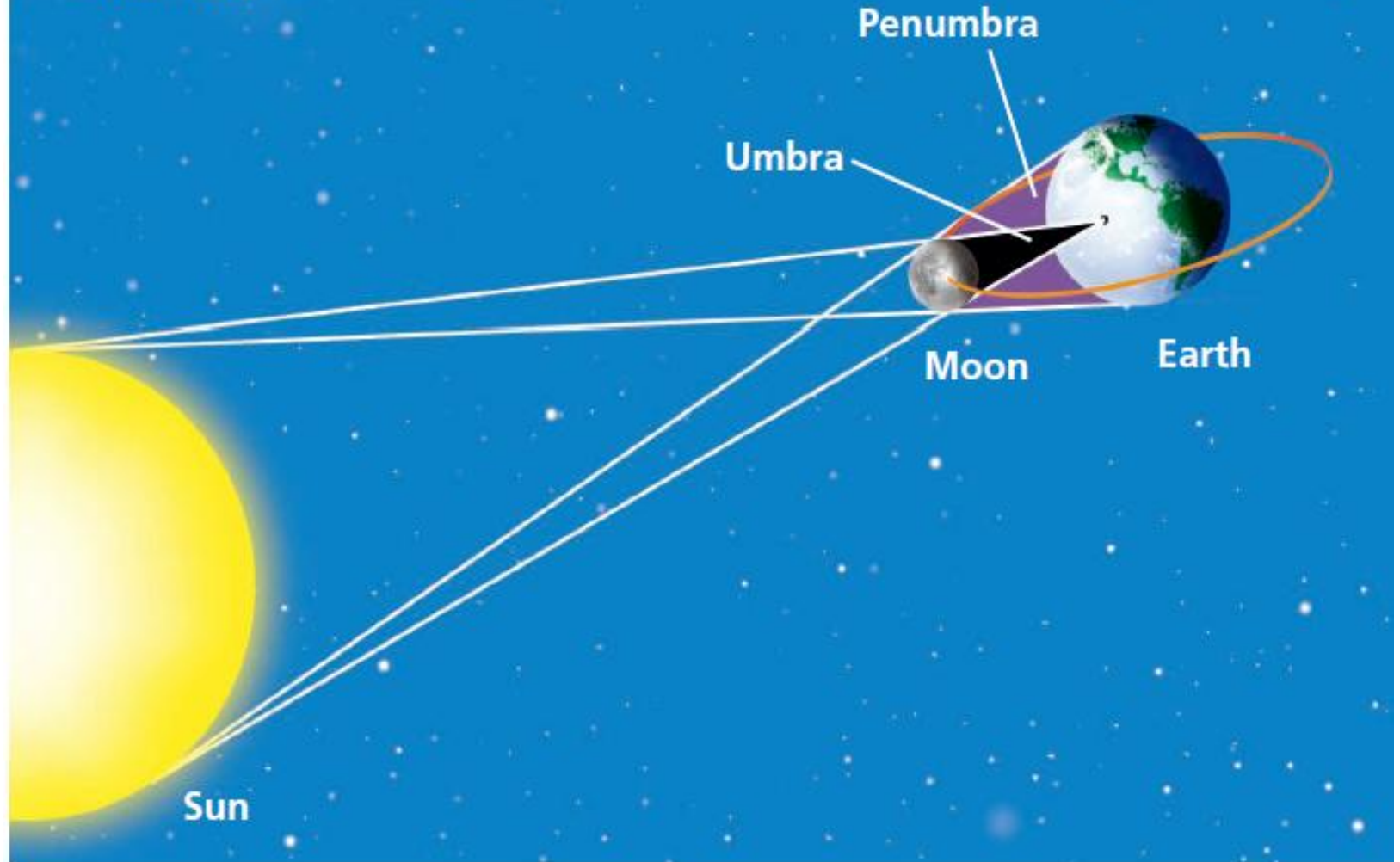




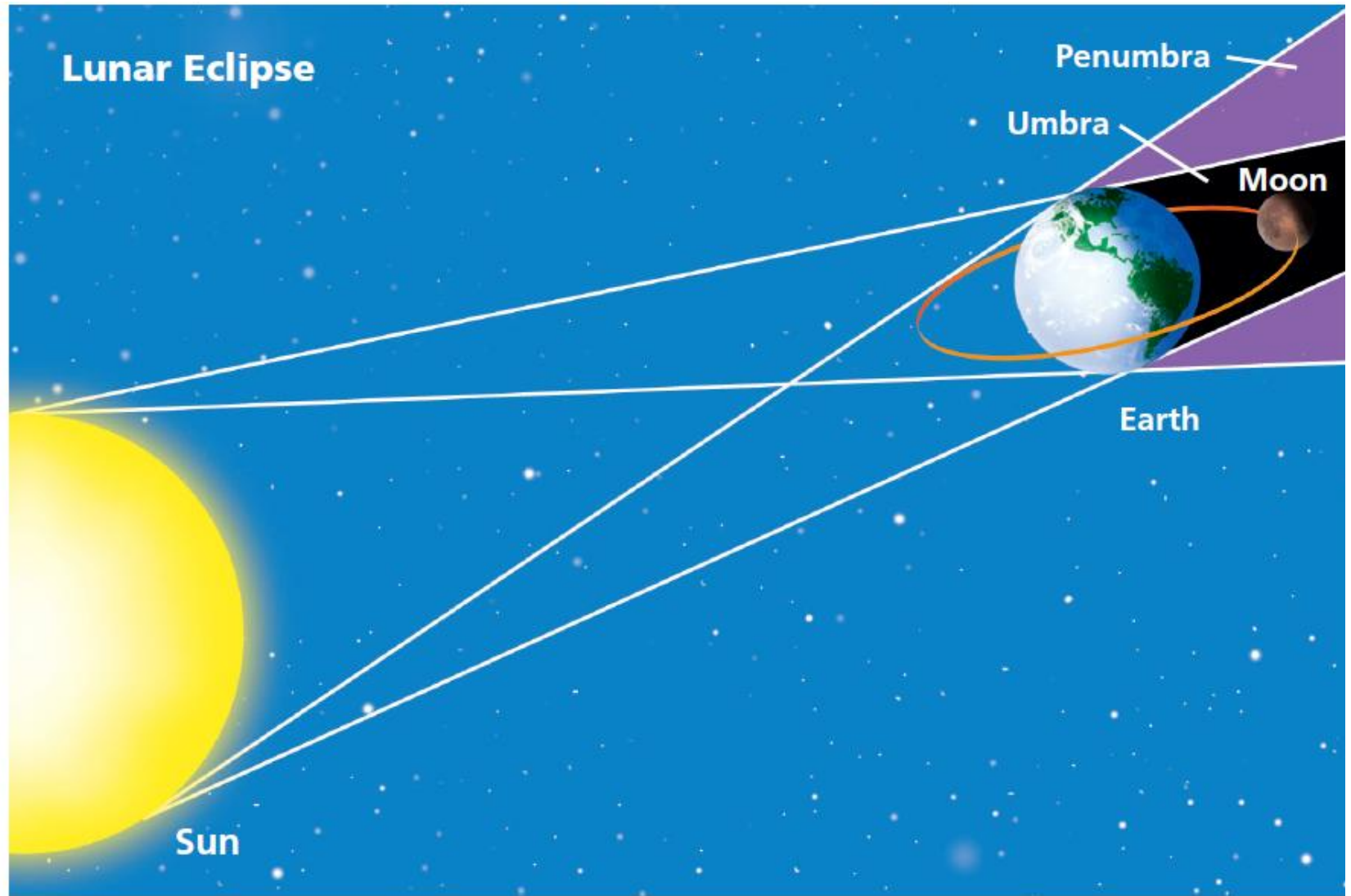
Eclipses

- Lunar Eclipse: the Moon passes through the shadow of the Earth.
- Solar Eclipse: the Earth passes through the shadow of the Moon.

Solar Eclipse



Lunar Eclipse

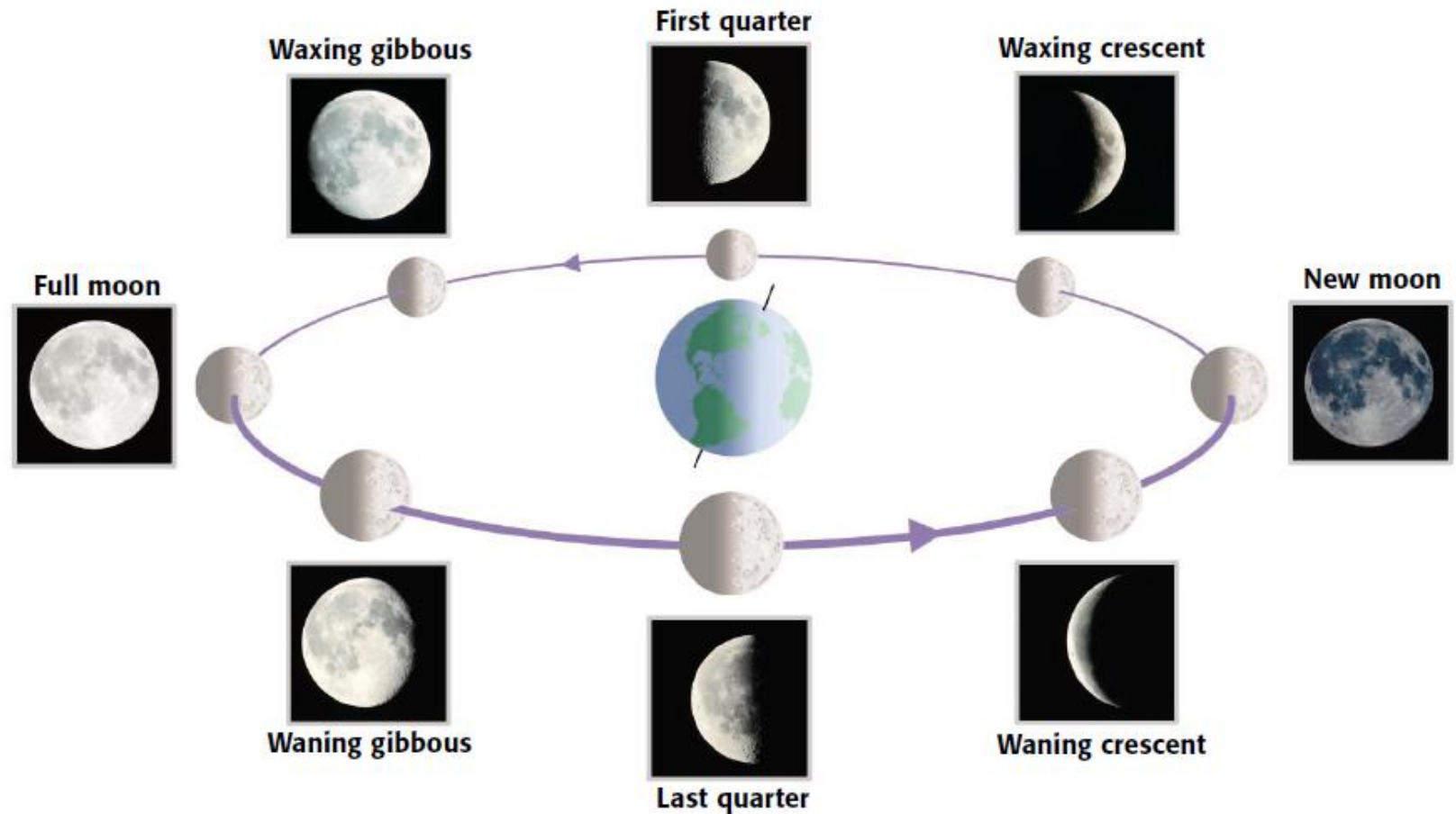


A decorative teal circular graphic is located on the left side of the slide, partially cut off by the edge.

Questions

- a. it is in shadow
- b. No
- Explain. Only those in the moon shadow's direct path.

Phases of the Moon



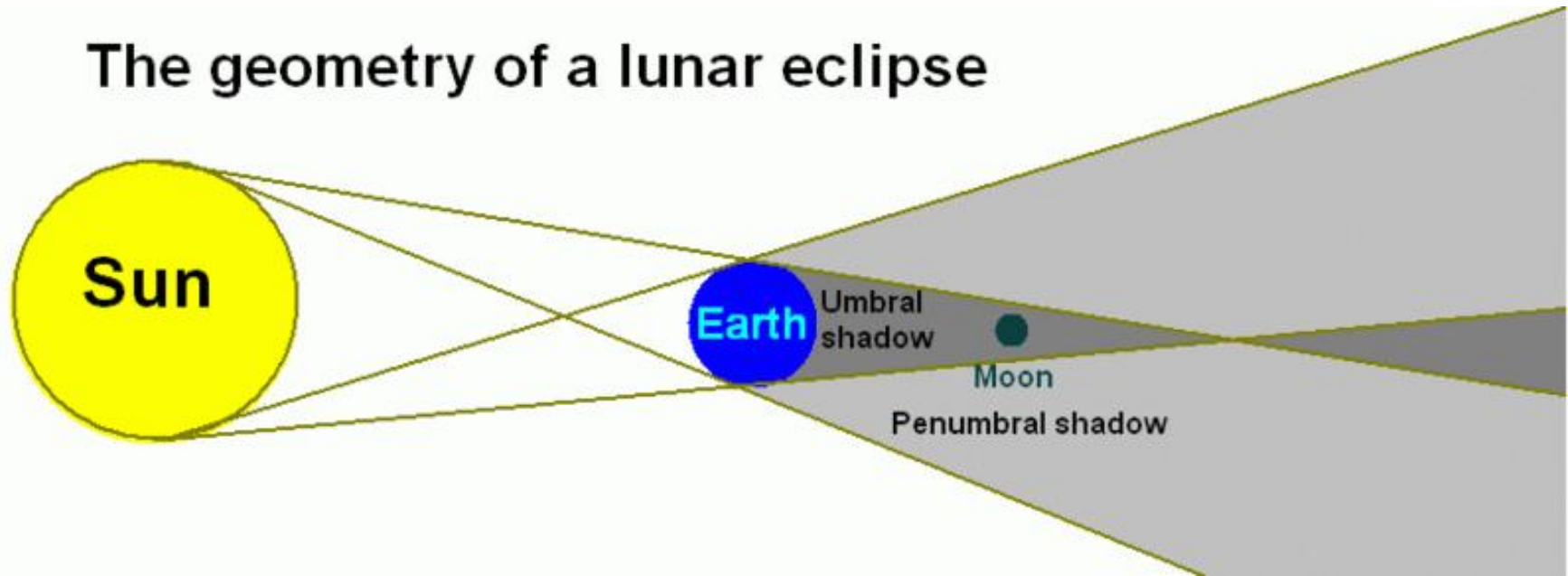


Phases of the Moon

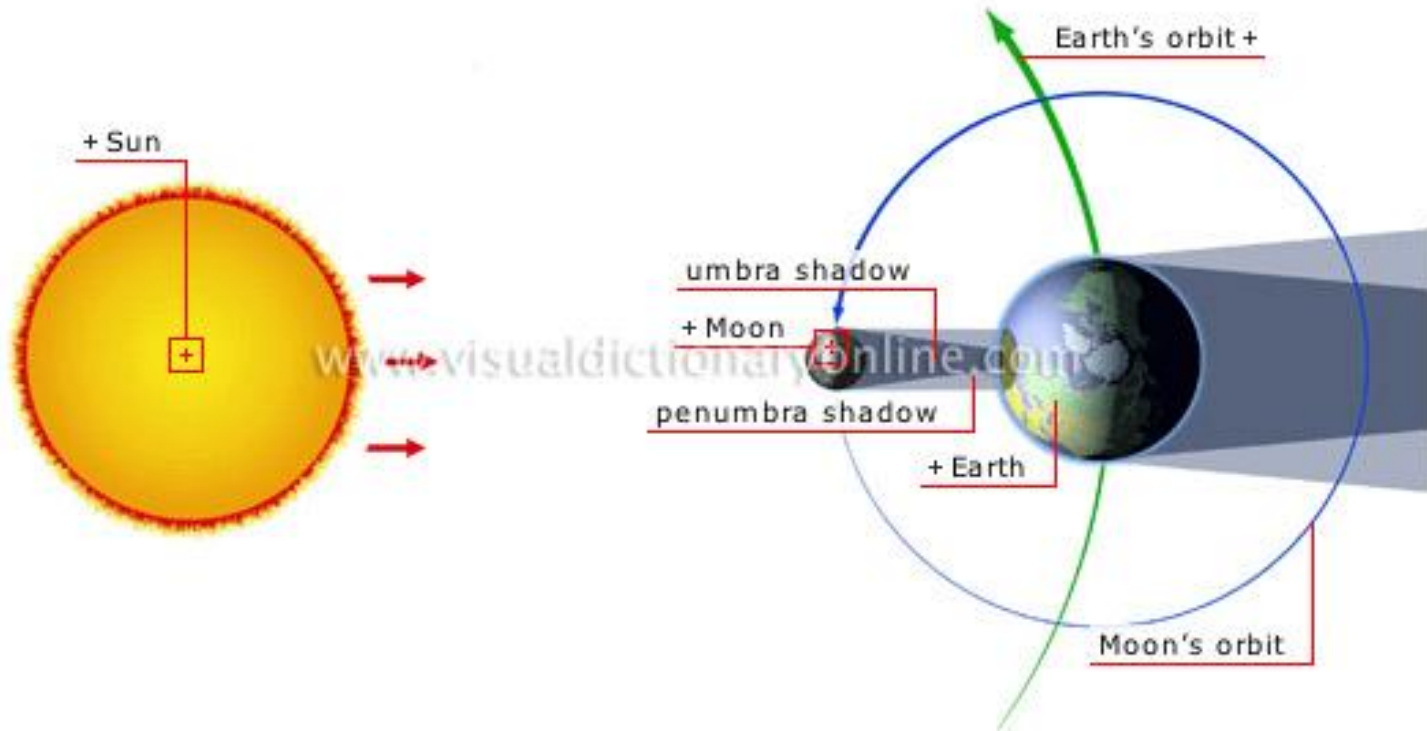
- Correctly label each phase using the following terms:
- Full moon, new moon, first quarter, third quarter, waxing crescent, waning crescent, waxing gibbous, waning gibbous.

Lunar Eclipse

The geometry of a lunar eclipse



Solar Eclipse



Phases of the Moon

