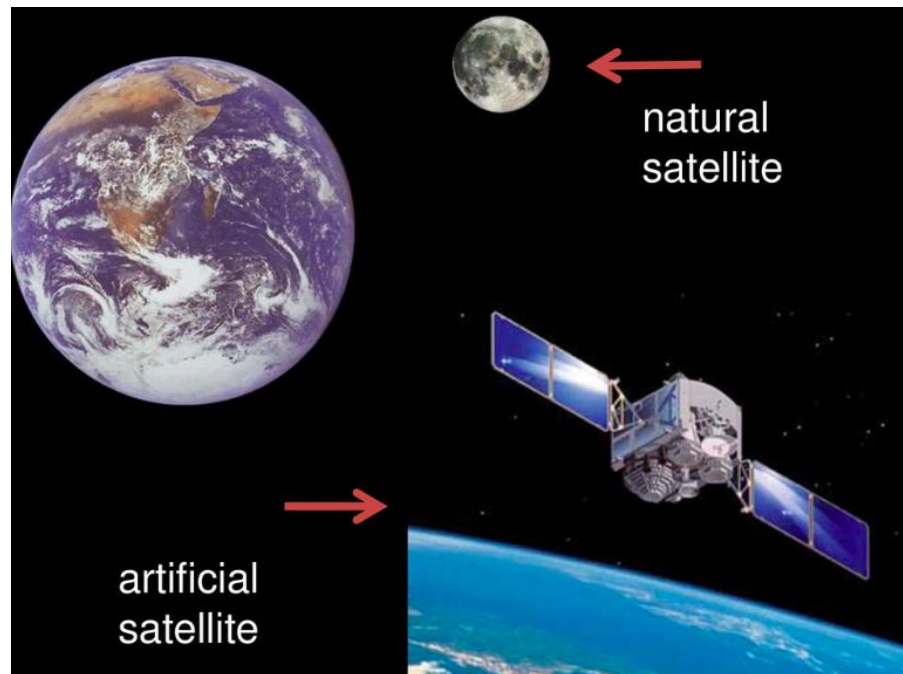


The Moon



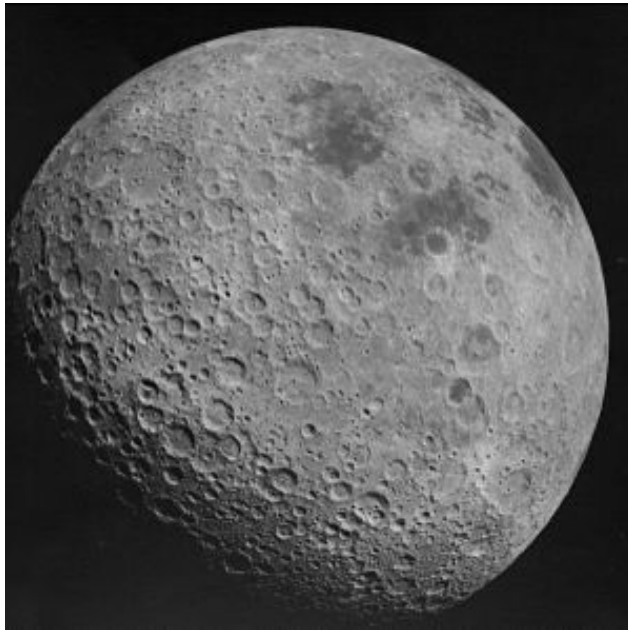
- The Moon is a natural satellite which is a natural or artificial body that revolves around a large celestial body.
- 1/6th the gravity of Earth
- No Atmosphere
- Temperature ranges from 134 degrees C (day) to -170 degrees C (night)



Characteristics of the Moon

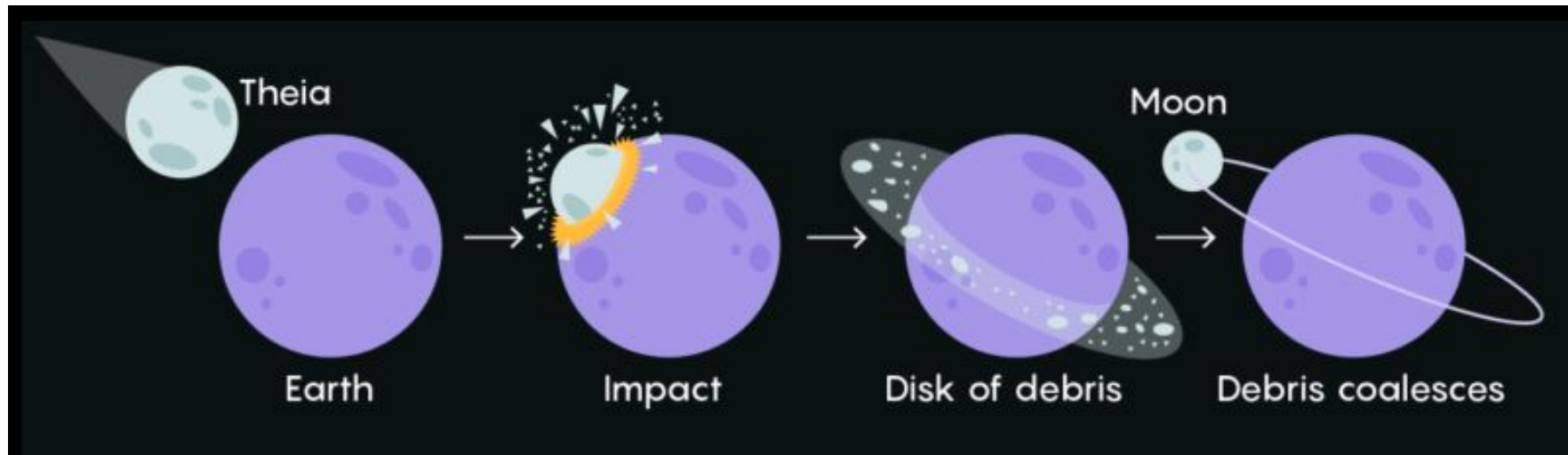
Maria -Dark areas of solidified lava billions of years old. (Looks like seas)

Craters- Deep depressions on the surface of the moon from collisions billions of years ago.



Formation of the Moon

Collision between Earth and a Mars sized body (Theia) ejected magma into space, settled into orbit and clumped together to form the moon.



The Moons Orbit is an Ellipse

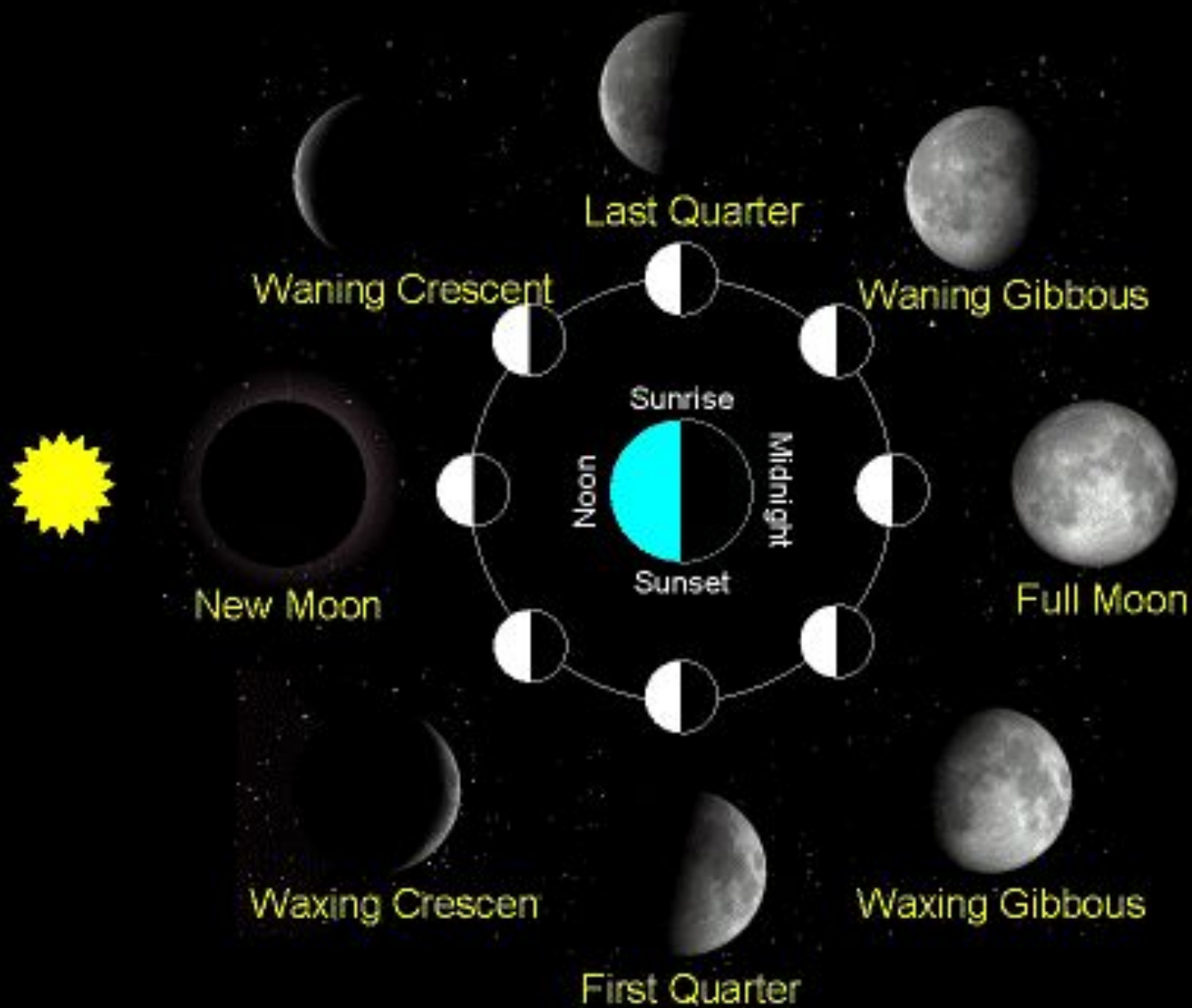


Rotation and Revolution

- The Moon takes 27.3 days to revolve around the Earth.
- The moon rotates exactly once every time it circles the Earth.
- The **Moon** does spin on its axis, completing a **rotation** once every 27.3 days; the confusion is caused because it also takes the same period to **orbit** the Earth, so that it keeps the same side facing us.

Phases of the Moon

- New
- Waxing Crescent
- First Quarter
- Waxing Gibbous
- Full
- Waning Gibbous
- Third Quarter
- Waning Crescent



*OBJECTS NOT TO SCALE



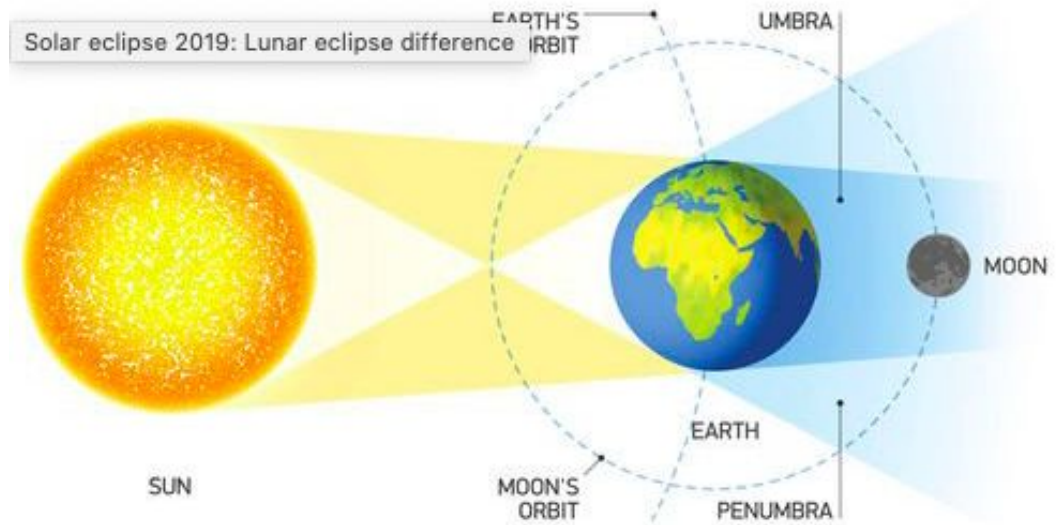
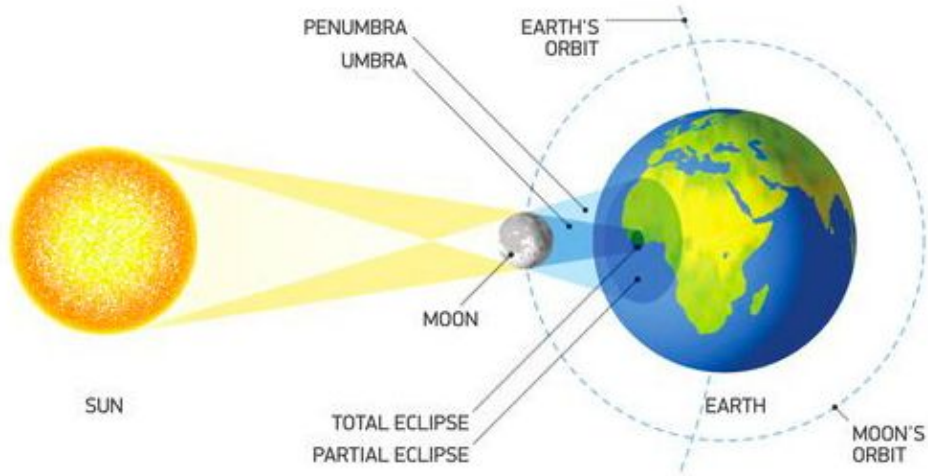
EARTH'S ORBIT
AROUND THE SUN



MOON'S ORBIT
AROUND THE EARTH

MOON PHASES AS SEEN FROM EARTH





	Solar Eclipse	Lunar Eclipse
When does it happen?	Daytime	Nighttime
What phase of the Moon is it?	New	Full
Who can see it?	Only people in the Moon's shadow	Everyone on the night side of the Earth
Do you need eclipse glasses?	Yes!	No!
What are you looking at?	The Sun, with the Moon passing in front of it	The Moon by itself, in the night sky