

Moon Phases

* * * * * Think About It!

 How do rotation and revolution apply to the moon and its phases?.

* * have phases?



- Like Earth, the moon rotates on its axis
- The Moon revolves around the Earth.

- The Moon's revolution appears to cause its different phases.
- Q. How long does it take the moon to complete one revolution?





- Even though the moon rotates, the same side of the moon always faces the Earth.
- Q. Does the moon give off it's own light?
- As the moon orbits Earth, its position in the sky changes >>>> different phases of the moon we see each month.

* * * * * * Think About It!



 From your activity yesterday, were you able to determine how many phases of the moon there are?

* Phases of the Moon



New Moon

Full Moon

Waxing Crescent

Waning Gibbous

 First Quarter or Half Moon Last Quarter or Half Moon

Waxing Gibbous

Waning Crescent



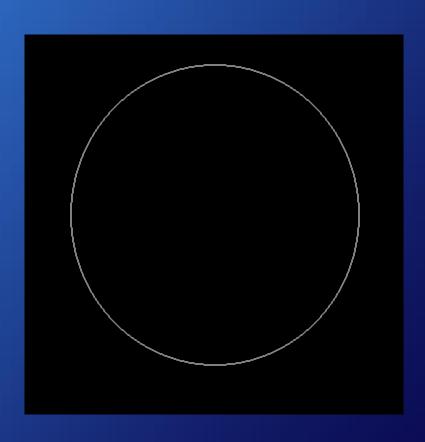


- Waxing: bright side is increasing
- Crescent: less than1/2 of the moon is lit

- Waning: bright side is decreasing
- •Gibbous: more than ½ of the moon is lit.







- •The moon is not visible from Earth.
- •The moon is between the Sun and the Earth.
- The dark side is facing us.
- This phase lasts one night.

Waxing Crescent

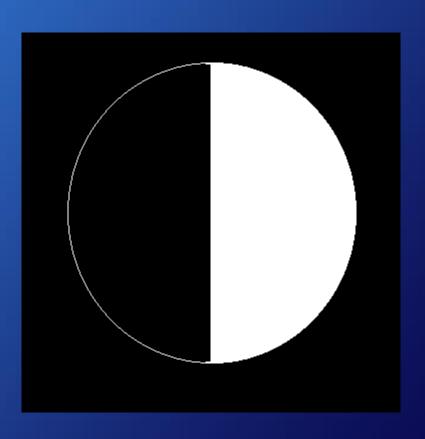




- •The right side is the bright side.
- •This phase includes any visible moon from a small sliver to almost half.

First Quarter or Half * * Moon



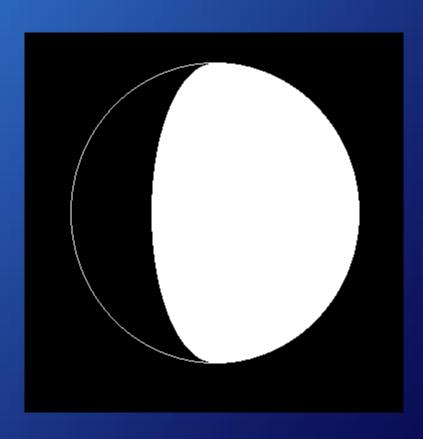


- •The entire right side of the moon is illuminated.
- •The moon looks like a half circle.

•This phase only lasts one night.

*Waxing Gibbous

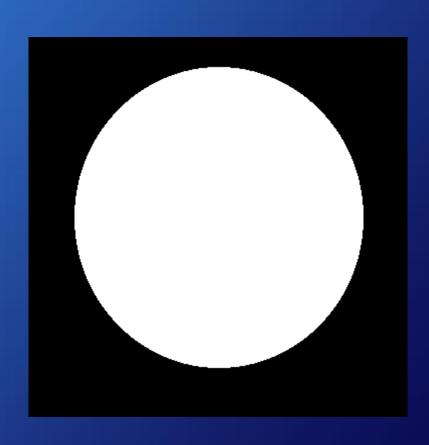




•This phase includes the night after the first quarter to the night before the full moon.



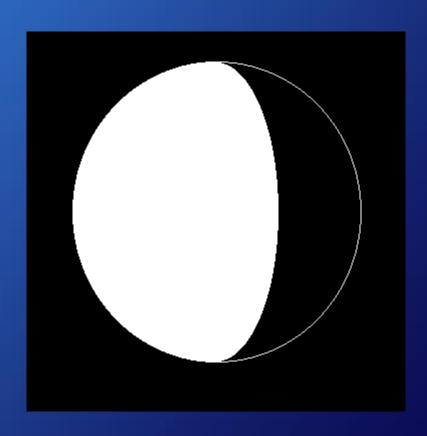




- •The moon is full and bright. It looks like a large circle.
- •The illuminated side is facing us.
- •Only happens one night in the lunar cycle.

*Waning*Gibbous



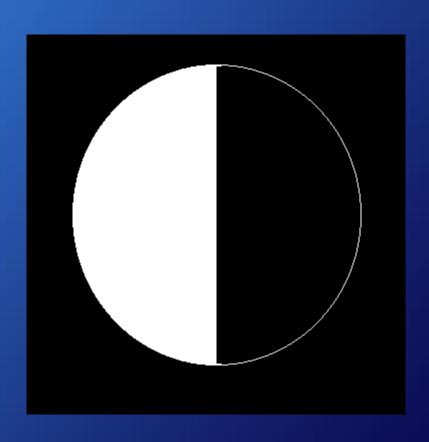


•The left side is the bright side.

•The moon appears more than half but not quite full.

Last Quarter or Half * Moon.





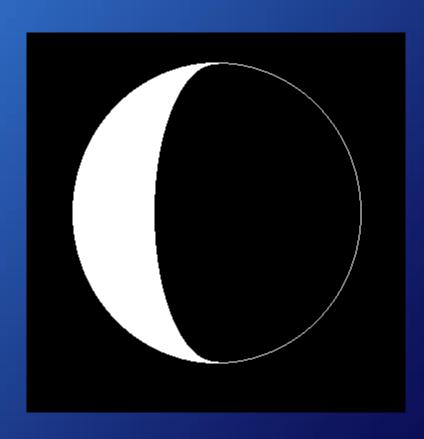
•Left Half of the moon is illuminated.

•The illuminated side is decreasing.

•This phase also only lasts for one night.

*Waning*Crescent





•Less than one half of the moon is illuminated.

•The moon will continue to become smaller and smaller.

