

Vocabulary (4 of these words will appear on the vocabulary portion of your quiz)

- **Moon phase:** different illuminated (lit) shapes of the moon
- **Lunar cycle:** complete cycle of the phases of the moon
- **Waxing:** increasing in brightness (of the moon)
- **Waning:** decreasing in brightness (of the moon)
- **Crescent:** less than $\frac{1}{2}$ of the moon is illuminated (lit)
- **Gibbous:** more than $\frac{1}{2}$ of the moon is illuminated (lit)

Rotation and Revolution of the Moon

- Like Earth, the **moon rotates on its axis.**
- The moon also **revolves around the Earth.**
- **One revolution of the moon around the Earth is called the lunar cycle.**
- A complete lunar cycle takes approximately **29 days.**

Light of the Moon

- The moon does not produce any of its own light.
- We can see the moon at night because of the light from the sun reflecting onto it.

Moon Phases

- A **moon phase** is the illuminated (lit) shape of the moon as seen by an observer on Earth.
- As the moon revolves around the Earth the side of the moon facing Earth becomes slowly illuminated (lit) by the sun's direct rays. The changes in the lit side of the moon are called moon phases.
- It takes 29 days for the moon to complete all its phases.

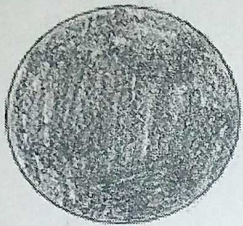
Order of Moon Phases (You should know the order of these phases and basic description)

1. New Moon	1st phase. Dark side of the moon is facing Earth
2. Waxing Crescent	Small sliver of the right side is lit
3. First Quarter / Half moon	$\frac{1}{2}$ of the right side is lit
4. Waxing Gibbous	$\frac{3}{4}$ of the right side is lit
5. Full Moon	The entire lit side of the moon is facing Earth
6. Waning Gibbous	$\frac{3}{4}$ of the left side is lit
7. Third / Last Quarter	$\frac{1}{2}$ of the left side is lit
8. Waning Gibbous	Small sliver of the left side is lit

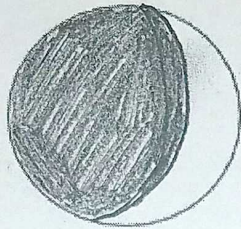
Drawing the Phases of the Moon

You must be able to shade each phase of the moon correctly as seen from Earth.

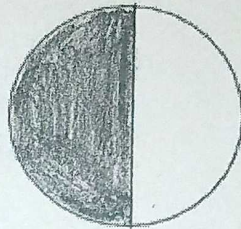
Phases of The Moon



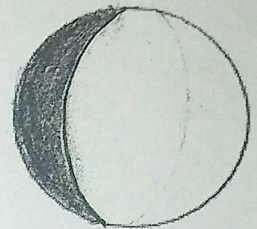
New Moon



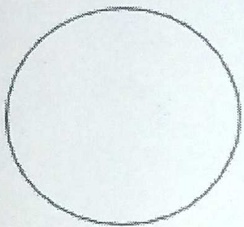
Waxing Crescent



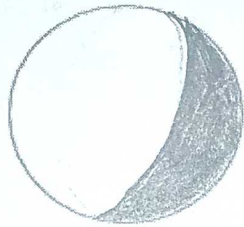
First Quarter



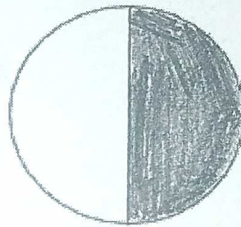
Waxing Gibbous



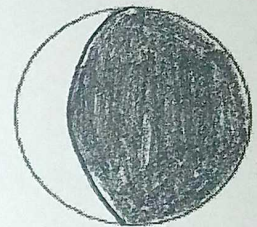
Full Moon



Waning Gibbous



Third Quarter



Waning Crescent