Earth and Space.

1. Draw a well labeled diagram to show the phases of moon.

- Full Moon
- Waxing Gibbous moon
- Waning Gibbous Moon
- Last Quarter/Third moon
- First Quarter Moon
- Waxing Crescent Moon
- New Moon
- Waxing Crescent Moon
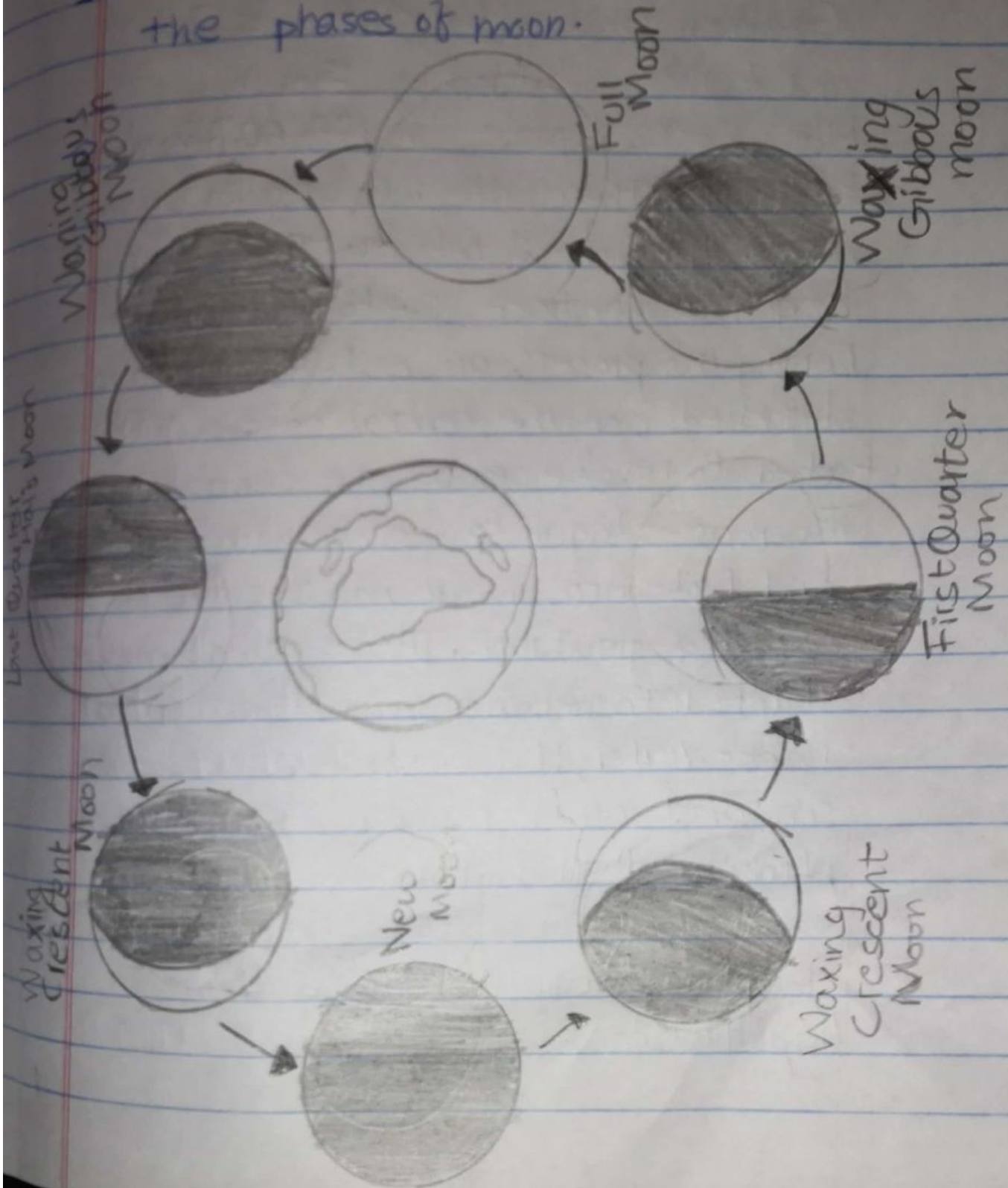
2. Describe nebular hypothesis.

→ Nebular hypothesis is was put forward by German philosopher Kant in 1755 AD and it was modified by French Mathematician Laplace in 1796AD. According to this hypothesis, the whole solar system was in the form of nebula. The nebula began to contract due to its own gravity. During this process, an outer ring was detached from the central core, which started to revolve around the central core. The masses began to collide with one another and broke into small masses due to ebbed of gravitation. These small masses started to revolve around the central mass. Later, the central mass became sun and other revolving bodies became planets, satellites, etc.

3. Explain George Woofan's theor hypothesis.

George Wooban's
Hypothesis (put forward)

→ It was ~~found~~ in 1749 A.D. According to George Wooban's hypothesis, ~~the~~ millions of years ago, there was only sun in the solar system. Once, a comet revolving around the universe struck the sun. And, some small masses of sun were left. The left masses started revolving the sun. Later, the small masses became planets and satellites.

4. Enlist any 4 reasons for the survival of life on earth.

→ Earth has suitable temperature for survival of living organisms.

→ It has sufficient amount of water.

→ It has sufficient amount of life supporting gases like oxygen, carbondioxide, etc. in ~~its~~ its atmosphere.

→ It has the protective layer of ozone.

5. Differentiate between bright half and dark half.

Bright Half	Dark half
- The bright part of moon increases for 15 days after new moon. This duration is bright half.	- After full moon, the bright face of moon decreases every night for 15 days. until It is dark half.
- Nights are bright.	- Nights are dark

6. What is synodic month? How is it different from sidereal month?

→ Synodic month is the duration between two consecutive full moons or new moons. Its duration is 29.5 day.

→ It is different from sideral month as

sideral month's duration is 27 days, ~~the~~ 7 hours 43 minutes & 11 seconds whereas the duration of synodic month is 29.5 days.