

# Astronomy Cheat Sheet

Name: \_\_\_\_\_

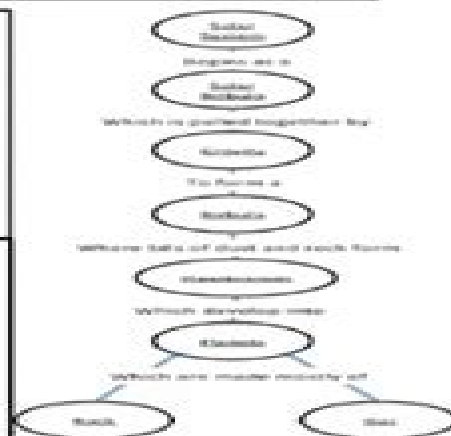
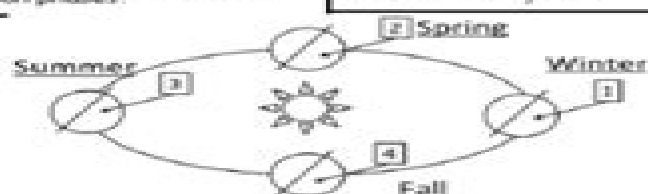
Final Exam Date: \_\_\_\_\_

- **Rotation** - When an object spins on its axis.
- **Day** - How long it takes for an object rotate one time on its axis.
- **Revolution** - When an object moves around another object... AKA: Orbit.
- **Year** - How long it takes for an object to revolve one time around another object.
- **Kepler's 2<sup>nd</sup> Law** - The closer an object is to the sun, the faster it appears to move. The further an object is from the sun, the slower it appears to move.

Our sun is composed mainly of hydrogen, helium and carbon.



- Tides are caused by the gravitation pull between the Moon and Earth.
- A high tide occurs daily and is when water levels are increased.
- A low tide occurs daily and is when water levels are decreased.
- A neap tide is when the tides hardly change at all. These occur during Quarter Moon phases.
- A spring tide is when the tides are extremely high and extremely low. These occur during Full and New Moon phases.



Seasons are caused by the angle at which the Sun hits a certain location at a certain time of the year.

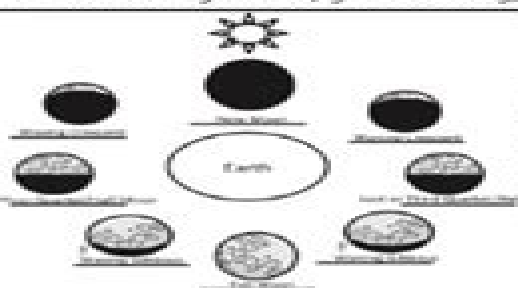
- Sun
- Mercury
- Venus
- Earth
- Mars
- Jupiter
- Saturn
- Uranus
- Neptune
- Pluto

Pluto is no longer considered to be a planet because it's orbit was discovered to cross with Neptune's orbit and Pluto's mass does not greatly exceed the mass of the other objects in its orbit.

Type of Eclipse:	Type of Eclipse:
Solar Eclipse	Lunar Eclipse
Organization of Sun, Moon, and Earth:	Organization of Sun, Moon, and Earth:
The Moon blocks the Sun's light to Earth. The Moon comes between the Earth and the Sun.	The Earth blocks the Sun's light to the Moon. The Moon comes between the Sun and the Moon.
Labeled Illustration:	Labeled Illustration:

## Creating a Moon-Phase Diagram:

1. Locate the Sun.
2. The phase closest to the sun is the New Moon. Color it completely dark.
3. Go directly across from the New Moon and label the Full Moon. This phase should be left totally light.
4. Go back to your New Moon. Move one step counter-clock-wise.
5. This is the Waxing Crescent. Draw a small thumbnail of light and keep the light pointing towards the sun always.
6. Go straight across from that Moon and draw the Waning Crescent.
7. Then the Quarter Moons.
8. Then the Gibbous Moons.
9. Remember: Keep the light pointing towards the Sun at all times.
10. All Waxing Moons (light increasing) are to the left of the Sun.
11. All Waning Moons (light decreasing) are to the right of the Sun.



**Reflecting:** Large and bounce light from the space object off of a set of mirrors to magnify the image.  
**Refracting:** Smaller and bend the light from the space object through a set of lenses to magnify the image.

- Asteroids are very large rocky, metallic bodies that orbit the Sun.
- Meteors are small rocky bodies that orbit the Sun.
- Meteorites are meteors that have fallen to Earth.

- A **Star** is a self-luminous body, consisting of a mass of gas that holds its own gravity.
- **The Life-Cycle of a Sun-Like Star:** They begin as a nebula with gas and gravity. Then the mass forms a globule in the middle. Due to gravity the globule collapses and forms a spiraling disk of gas and dust. Then it forms a protostar with protoplanets. Then they become an active star with young planets. Then it becomes a solar system with the star in the middle. Then the sun-like star forms a red giant, then a planetary nebula, then a white dwarf and finally a black dwarf.
- We are located in the Milky Way galaxy which is a spiral (shape) galaxy. The Milky Way is located in the Local group which is within the Virgo supercluster. Our closest neighboring galaxy is called Andromeda.
- **The Big Bang Theory:** The Universe began as an extremely dense, single point. Due to high amounts of density, it became unstable and exploded. The Universe is constantly expanding with every second.
- **How Do We Know?** Scientists use light signals from telescopes to measure how objects in the universe move. We understand that objects are moving away from us because of Red Shift (longer wavelengths and lower frequencies). If objects were moving towards us, there would be Blue Shift (shorter wavelengths and higher frequencies).



Amount of Time Studied: \_\_\_\_\_ hr \_\_\_\_\_ mins

# Science Olympiad Solar System Cheat Sheet

**Karin Nielsen-Saines**



## Science Olympiad Solar System Cheat Sheet:

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