Name: _____

Date: _____ Period: _____

Supplemental: Annotating Class Notes

Directions: Using the Class Notes: Astronomy, complete the following activity.

I.   Apparent Motions

Geocentric Model - _____

_____

Problem 1: _____

_____

Problem 2: _____

_____

Match the Terms:

_____ Celestial Object   a.   star directly above the north pole and/or south pole

_____ Celestial Sphere   b.   the visible portion of the sky

_____ Horizon   c.   angular distance measured along the horizon

_____ Zenith   d.   long exposure photo providing evidence of rotation

_____ Star Trail   e.   the edge of the visible portion of the celestial sphere

_____ Circumpolar Star   f.   angular distance measured above the horizon

_____ Polar Star   g.   stars that move around a polar star

_____ Altitude   h.   a natural object that can be seen in the sky

_____ Azimuth   i.   the highest point on the celestial sphere

Supplemental: Annotating Class Notes

II. Actual Motions

Heliocentric Model - _____
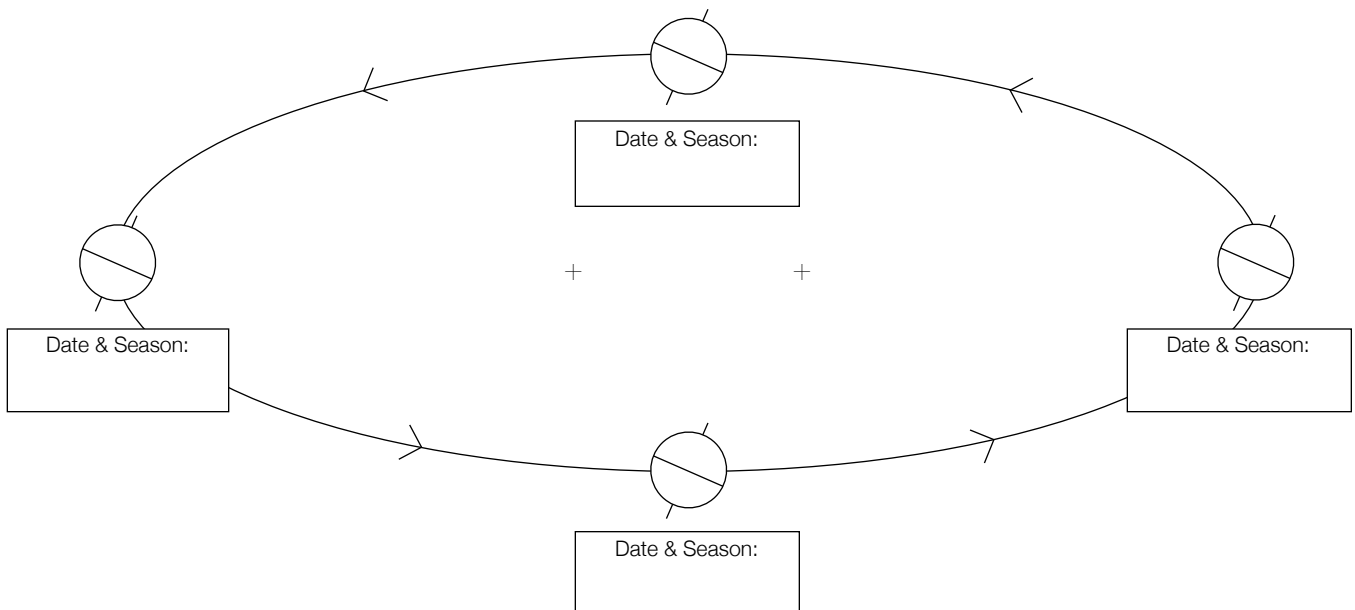
_____

Rotation - _____

_____

   Evidence 1: _____

               _____

   Evidence 2: _____

               _____

Revolution - _____

_____

Label the following:

1. Dates of the solstices and equinoxes
2. Draw in the Major Axis
3. Label the Foci
4. Label the Sun

Date & Season:

Date & Season:

Date & Season:

Date & Season:

Supplemental: Annotating Class Notes

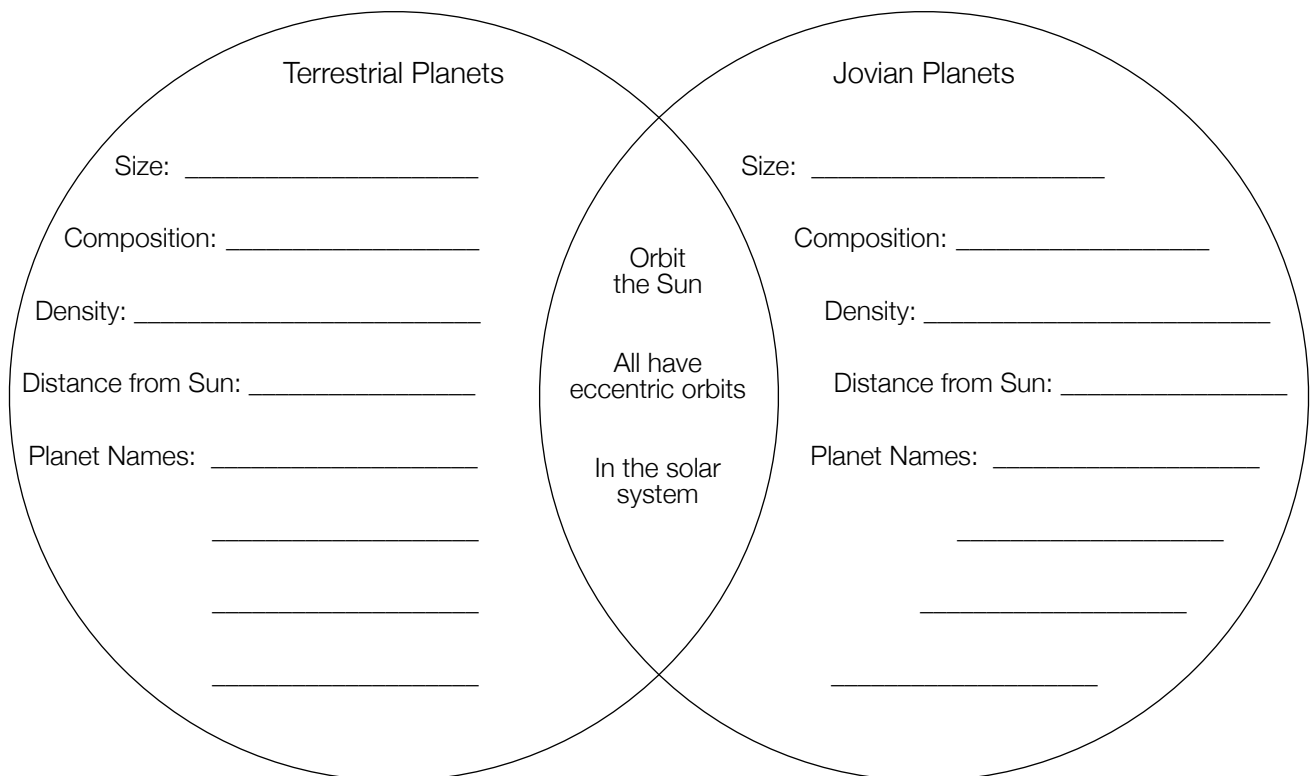Eccentricity of a Perfect Circle _____

Eccentricity of a Straight Line _____

Eccentricity Problem:

Step1: As Planet X revolves around a star, calculate the eccentricity of its orbit if the distance between to foci is 5,000,000 km and the length of the major axis is 149,600,000 km [show all work].
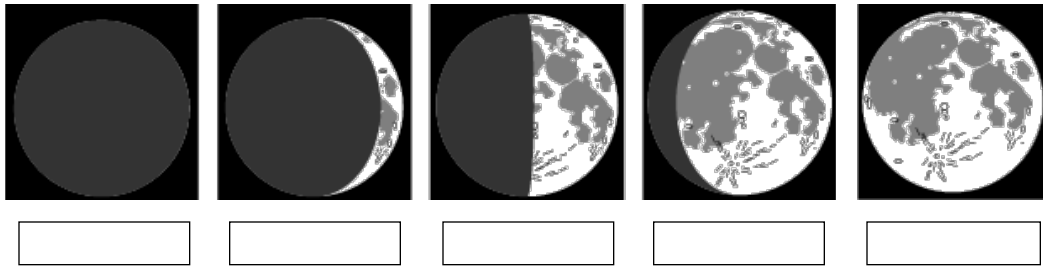
Step 2: Compare Planet X's eccentricity of orbit to Earth's orbit. _____

_____

_____

III. The Solar System

Terrestrial Planets

Size: _____

Composition: _____

Density: _____

Distance from Sun: _____

Planet Names: _____

_____

_____

_____

Orbit
the Sun

All have
eccentric orbits

In the solar
system

Jovian Planets

Size: _____

Composition: _____

Density: _____

Distance from Sun: _____

Planet Names: _____

_____

_____

_____

Supplemental: Annotating Class Notes

Label the Phases of the Moon:

IV. Galaxies and Stars

Fill in the chart below.

Star Name	Luminosity	Temperature	Color
Polaris			
Sun			
Deneb			
Procyon B			
Pollux			

V. The Universe

Universe _____

_____

       Age of the Universe: _____

Big Bang - _____

_____

       Evidence 1: _____

       Evidence 2: _____

Describe the difference between a red shift and blue shift. _____

_____

_____