

Name: _____

Period: _____

Date: _____

Astronomy Unit 2 Study Guide

Celestial Sphere:

What is the **Celestial Sphere**-

Draw a **Celestial Sphere** and label the poles, equator, meridian, earth

How much of **Celestial Sphere** can be seen throughout the night?

What Hemisphere do we see on the **Celestial Sphere**?

What star located at the North Celestial Pole?

Is it the brightest star?

What is the Celestial Equator and describe how the stars rotate?

What are Circumpolar Stars?

Diurnal Motion:

What is **Diurnal Motion**?

Does **Diurnal Motion** change the position of the stars?

What is the sun's **Diurnal Motion**?

In regards to the sun, what is the earth doing and how long?

Ecliptic:

What is the **Ecliptic**?

How are the constellations of the Zodiac determined?

How many constellations of the Zodiac are there?

The Earth's rotation axis is tilted _____ with respect to the **Ecliptic**.

Solstices:

What are **solstices**?

Summer Solstice and dates of the year-

Winter Solstice and dates of the year –

Equinoxes:

What causes the **Equinoxes**?

Vernal Equinox date of the year-

Autumnal Equinox date of the year-

Tilt of the Earth:

What causes the seasons?

When does Earth receive more direct sunlight? And least?

Constellations:

What is a constellation?

How many Constellations are there?

You should know where these constellations are located, what they look like, pointer stars and a little about their myths (mainly characters, animals, etc.)

Ursa Major/ Minor

Cassiopeia

Cephus

Draco

Orion

Canus Major/Minor

Taurus

Pleiades

You only need to know a little about these myths, projects in class:

Leo

Hydra

Andromeda

Hercules

Gemini

Pegasus

Perseus

Zenith-

Azimuth-

Altitude-

Right Ascension-

How is **right ascension** measured?

Declination-

How is **declination** measured?

Practice finding constellations and dates on your Celestial Sphere:

Examples:

Determine if there is a constellation on your celestial sphere for the following coordinate:

RA 15hr30min Dec.26° north Yes No

Determine the RA and Dec. on your celestial sphere for the following date:

October 15

A. RA 1 hr 30 min, Dec. 12°south

B. RA 13hr 30 min, Dec. 12°south

C. RA 13hr 30 min, Dec. 12°north

D. RA 4hr 30 min, Dec. 35° north

You must have your Celestial Sphere for the TEST!!!

Study Hard!!! Good Luck ☺☺☺