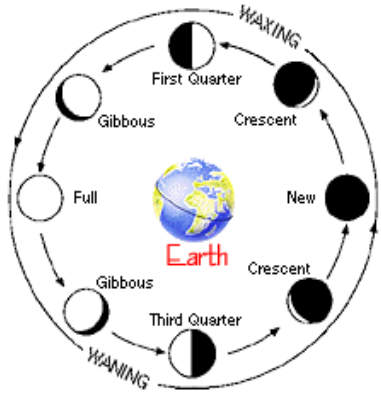


The Moon

The Moon as seen from Earth



Waxing =

Waning =

Why do we always see the same lunar surface?

Our Solar System

Describe the Nebular Theory of formation for our Solar System.

Our Galaxy

What is the name of our galaxy?



Eclipses

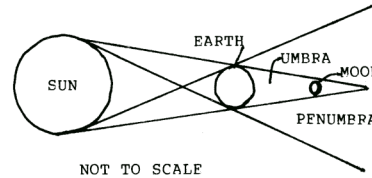
Umbra =

Penumbra =

What conditions must occur for a partial eclipse?

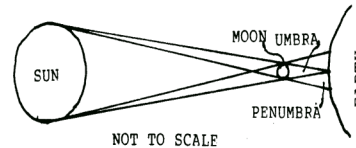
What conditions must occur for a total eclipse?

Lunar



Eclipse

Solar



Eclipse

Some Impacts on Earth

Perihelion=

Aphelion=

Precession=

Explain how Earth's seasons are created.

How is a leap year created?

The Sun

What process does the sun use to generate energy?

What two elements are involved?

Where in the sun does this happen?

How does this energy arrive on Earth?

Describe the corona and what is its function?

When can we see the corona?

What is a sunspot?

Describe the sunspot cycle.

What are the auroras and how are they formed?

Describe the distribution of solar energy on Earth.

(is it evenly distributed? What areas get more? Less?)

How is the sun's energy used on Earth? (several ways)

Earth's Motions

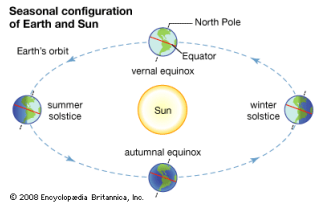
1. Earth's spin on its axis is _____
2. Earth's "wobble" as it spins is _____
3. The small back & forth motion within the "wobble" is _____

CREATE A LABELED SKETCH of #2 and #3

4. Earth revolves around the sun is _____
5. The point around which Earth truly revolves is known as the _____.

CREATE A LABELED SKETCH of #5

The Reason for the Season is Whaaa??



Use the diagram above to explain the reason for our seasons.

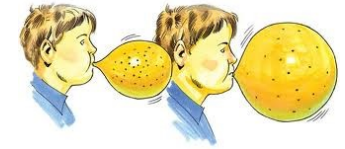
Explain what the common error people make about the cause for the seasons AND one simple way to know that it's not true.

Key Terms to Know

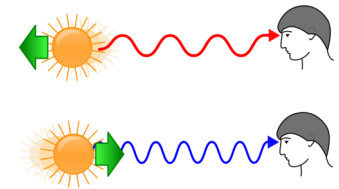
- Aphelion
- Astronomy
- Barycenter
- Big Bang Theory
- Eccentricity
- Electromagnetic spectrum
- Equinox
- Galaxy
- Geocentric model of a solar system
- Heliocentric model of a solar system
- Hubble's Law
- Kepler's 1st Law of Planetary Motion
- Kepler's 2nd Law of Planetary Motion
- Lunar Eclipse
- Nuclear fusion
- Nutation
- Perihelion
- Precession
- Radiation
- Revolution
- Rotation
- Solar Eclipse
- Solar System
- Solstice
- Tides
- Universe

Astronomy

Hubble's Law =



Doppler Effect =



Red Shift =

Blue Shift =



Describe what is shown in the diagram above.