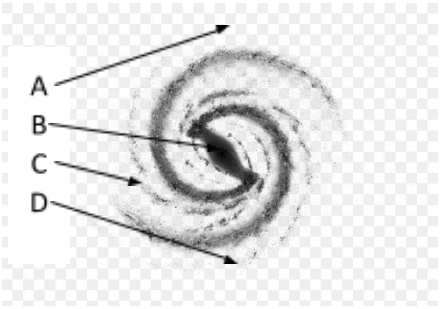
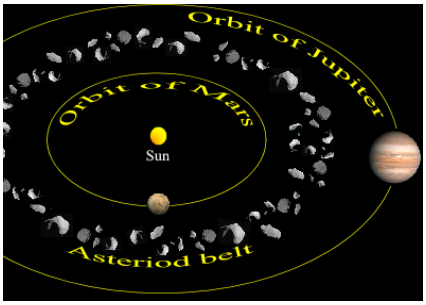
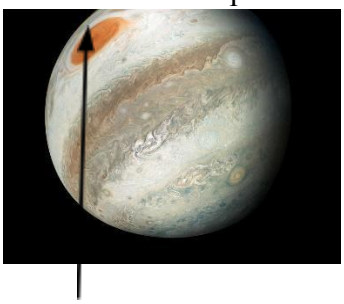
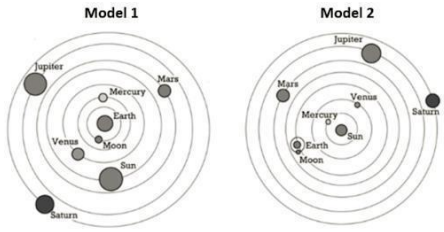
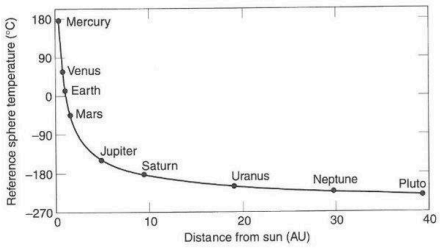
Unit 1: Solar System and Beyond Study Guide

Test Date:_____ **Name**_____

Standards: S6E1a-e

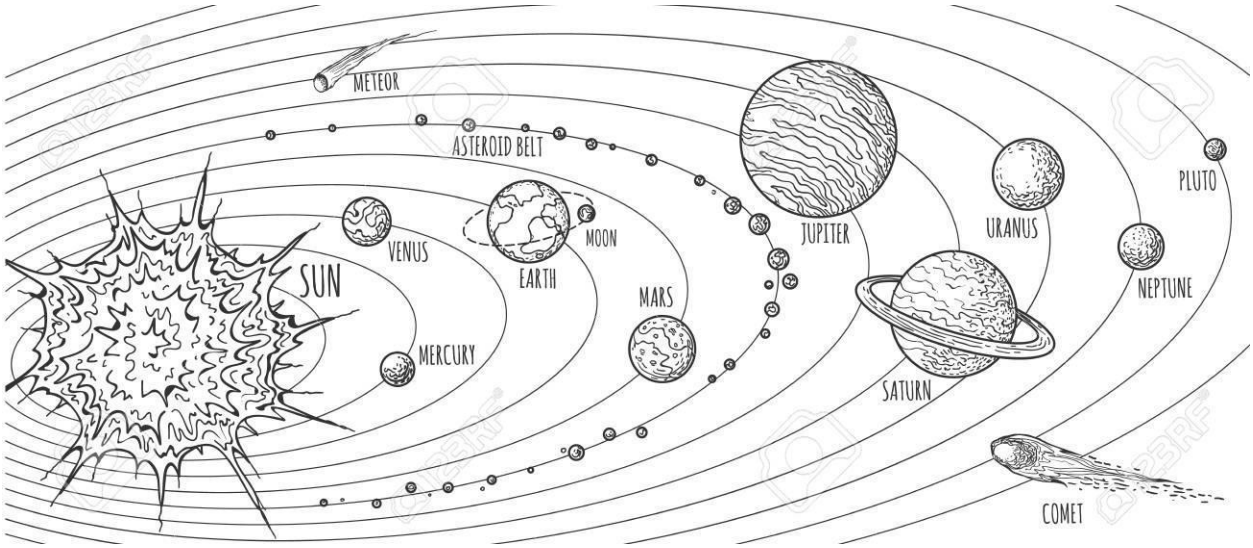
According to science, what is the Big Bang Theory?	What evidence is used to support the Big Bang Theory?	Which planets are affected by the sun's gravity?
Where are we in the Milky Way? 	List 5 things that are found in our solar system.	The asteroid belt is located between the orbits of ___> 
What scientists believed in the Geocentric model? What scientist believed in the Heliocentric model?	What evidence have we seen to prove the Big bang or the expansion of the universe?	What is that on Jupiter? 
What is the shape of Earth's Milky Way Galaxy?	Place in order from largest to smallest: planet, galaxy, universe, solar system	What is a galaxy?

List the four gas giants:	The planets orbit around the sun is highly	All outer planets share these common characteristics;
Identify  	What is the difference between those two models on the right?	What happens to the temperature of a planet the farther away it gets from the sun?  Fig. 2.26. Temperature as a function of distance from the sun.
List three objects found in the asteroid belt;	What is the difference between the surface of the Moon and Earth? 	Unlike the moon, why is Earth not full of craters? 

Astronomy 1 Test Modified

Name:_____ Period _____

Multiple choice. Select the one best answer.



1. Name the 4 planets that are rocky, smaller, and warmer.
   a. Mercury, Venus, Earth, Mars
   b. Jupiter, Saturn, Uranus, Neptune

2. I am a rocky planet. I have two moons. My soil is full of iron oxide. I am known as the Red Planet.
   a. Mercury b. Mars c. Saturn

3. I am an outer planet. I am the least dense planet. I have an impressive ring system. I have over 60 moons.
   a. Saturn b. Earth c. Pluto

4. I am an inner planet. I am surrounded by clouds of sulfuric acid which makes me the hottest planet. I am known as Earth's twin.
   a. Jupiter b. Neptune c. Venus

5. I have one moon. I am the only known planet to sustain life. I have water as a solid, liquid and a gas. I am the third planet from the sun.

a. Earth b. Uranus c. Mars

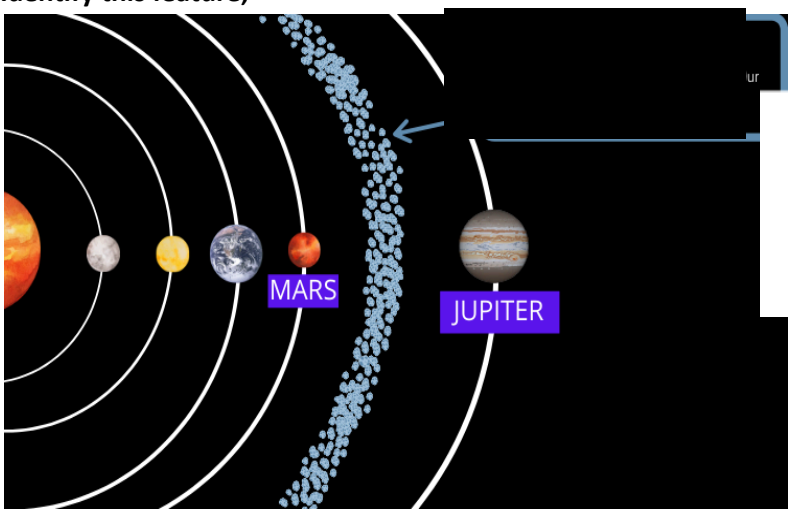
6. Asteroids, meteoroids and comets are all made of _____
   a. Rock and metal b. ice and gas c. glitter and gold

7. The most widely accepted theory explaining the origin of the universe.
   a. Steady State Theory b. Theory of Evolution c. Big Bang Theory

8. Place in order from largest to smallest: planet, solar system, universe, galaxy.

   1. _____
   2. _____
   3. _____
   4. _____

9. **Identify this feature;**



Oort Cloud

Asteroid Belt

Black Hole

10. What would happen to the planets in our solar system if the sun's gravity disappeared?
    a. Planets would fly off in a straight line
    b. Planets would explode
    c. Planets would bump into the sun

Use the chart to answer the following questions.

Sizes and densities of planets

	diam. (km)	dens. (g/cc)	"uncompressed" density	moment of inertia
Mercury	2440	5.4	5.3	.33
Venus	6040	5.2	4.3	.33
Earth	6400	5.5	4.4	.33
(Moon)	1740	3.3	3.3	.393
Mars	3400	3.9	3.7	.366
Jupiter	71500	1.3		.254
Saturn	60300	0.7 (!)		.210
Uranus	25600	1.3		.23
Neptune	24800	1.6		.23

11. Which planet is the most dense?

a. Mercury b. Earth

12. Which planet is the least dense?

a. Jupiter b. Saturn