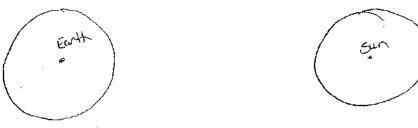
1. Draw and label an illustration of the Geocentric Model and Heliocentric Model of the solar (690,691) system. (S6E1a)



- 2. Nichdas Copum Curproposed the heliocentric model of the solar system? (S6E1a) (694)
- 3. Explain the Geocentric Model of the Solar System. (S6E1a) The Olands Hue Sun and the Moon were fixed in seperate spheres that rolated around Earth. (1690)

 4. Explain the Big Bang Theory. (SoEla) Approximately 13.7 billion years aso, the universe began with an enormous explosion. The extire universe began to expend everywhere at the same time (145)

 5. Read the statements below. Identify whether the statement is True or False. If the statement is

False, explain why it is False. (S6E1a)

- True (144) a. The universe continues to expand.
- ... b. The Big Bang theory suggests that the universe formed billions of years ago through a big explosion. a release of energy

c. The solar system formed at the same time as the Big Bang Theory. (692,695) 4.66illion years ago 137 billion guersago

d. The Big Bang is the only existing theory to explain the origin of the universe. (742)

There are 2 Other theories. The steady state theory states the universe has aways has been the same. The oscillating model states the universe 6. Identify the objects that are part of our solar system. (S6E1a)

Sun, plenets imoons, comets, asteroids, dwarf plenets, meterors

7. Describe the evidence that the universe is expanding. (S6E1a) (143) The Red Shift shows That galaxies beyond the Local group shows a red shift when they move away i If they are moving away from Earth the galaxy must be expanding. 8. Describe the location of our Sun in the universe. (S6E1a)(741)

It is 26,000 light years from the galexys center in one of the

9. Describe the location of the Sun in our Milky Way Galaxy. (S6E1a) (740)
The sun is about 26,000 light years from the center. The sun and the rest
of the soiar system are located near the outer edge of the Milky Way Galaxy. 10. Define a galaxy. (S6E1b) (つぐの)

H Galaxy is a large group of stars, gas, and dust held together by gravity.

11. Why can't the shape of the Milky Way Galaxy be seen from the Earth? (S6E1b) (741)

Because we are located within one of the spiral arms of 1 the Milky Way.

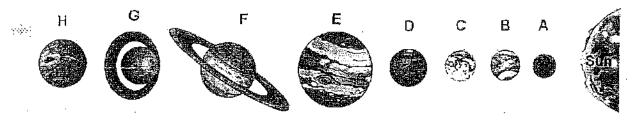
12. Define revolution. (S6E1c) 663 Earth's yearlong elliptical orbit around the Sun.
13. Identify the Inner Planets and describe how they are different from the outer planets in our solar system. (S6E1c) (692)
Mereury rocky planets with an iron core
14. Identify the Outer Planets and describe what they all have in common. (S6E1c)
Jupiter Saturn Saturn Virgues hydrogen, helium, melliane, ammonia
similarities. Identify a characteristic that is similar among the planets in our solar system?
(S6B10) elliptical orbit around the sun
(S6E10) elliptical orbit around the sun -many have an atmosphere, except for mercury - extreme temperatures
16. Why do objects appear to move across the sky? (S6Eld) Objects appear to move the 5ky because the earth is in motion. (725)
17. Based on your knowledge of the planets Earth and Venus, how are the two planets most (697,698) different? (S6EIc) Earth and Venus have different atmospheres. Venus has & Earth has I moon Venus has cloude so sunlight land reach it. Earth has abundant liquid wader and supports life 18. Mercury is about 58 million km away from the Sun with an orbital speed of around 47.8 cm/second. Uranus is about 2900 million km away from the Sun with an orbital speed of around 5.5 km/second. What conclusion can you draw about a planet's distance from the Sun and its probital speed? (S6EIe) 694) The planets closer to the Sun travel fast than planets farther away from the Sun. Owder planets telle much logical to orbit the Sun than the inner planets. 19. Describe how distance affects the Sun's gravity on planets and other objects in the solar system. (S6EIe) (162 all earler the distance the base the gravitational system. (S6EIe)
The state of the s
20. Identify which statement below describes a comet, asteroid, or a meteor. On, 012
a. Structure is considered to be like a large, dirty snowball comets
b. Pieces of dust and rock that burn up in the Earth's atmosphere meteor
c. Piece of rock similar to the material that formed the planets a stero.d

e. Smaller pieces of rock broken from older asteroids become meteoroids.

f. Considered harmless even though they can be observed at times from Earth Comet

d. Composed of dust and rock mixed with frozen water, methane, and ammonia Come

g. Most of these are located between the orbits of Mars and Jupiter askeroid



Write the characteristics into the correct planet's box in the table on the next page. The number beside each statement indicates how many times the statement can be used.

*Note: Students are not expected to know each characteristic individually. Rather, students are expected to know characteristics of a planet collectively and/or characteristics that are common to several planets.

Larger than Earth (4)	Least dense planet
• Has one moon	Spins clockwise
 All water is now frozen 	Has no moons
 Largest planet 	Spins the fastest
• "Earth-like" characteristics (3)	Day is 10 hours long
Once had active volcanoes	Hottest planet (can melt lead)
• 1 year equals 29 ½ Earth years	Appears red because of rusted soil
Smaller in size in relation to Earth (2)	Has at least 63 moons-
Only known planet to sustain life	Has no atmosphere
 Thinner atmosphere than the Earth 	Large red spot
Largest, most impressive ring system	Has severe dust storms at hurricane speeds
Faint ring of dust	Has canyons, craters, mountains, volcanoes
Gaseous planet (4)	Second largest planet in the solar system
 Coldest planet 	Third largest planet
 Tipped on its side 	Atmosphere of methane
A day is longer than a year due to slow spin	• More than 70% of the surface is covered by water
 Close to the Earth's size (95% of radius) 	Brightest object in the sky after the Sun and moon
 Atmosphere of hydrogen, helium, and methane 	Innermost and smallest planet in solar system
Has large storm system like the Great Dark Spot	Surface has many craters and high cliffs

	Letter	y 1 Unit Study Planet	Characteristics
22.	A	Mercury	has no atmospher has no moon All water is now trozen smaller in size, to earth
23.	В	Venus	brightest object in the 6ky after Sun and moon close to Earth's 5ize (95% radius) has no moon I Earth like characteristics Smaller in Size to Earth Haylonger than a year-slow Spin
24.	С	Earth	has one moon Only Known planet to substan life
25.	D	Mars	Appears red because of rusted soil Earth like characteristics Once had active volcanoes Thinner atmospherethan Earth
26.	 E	Supiter	has at least le3 moons / Spins fasteat largest planet larger than Earth faint rings of Dud
.27.	F	Seturn	gaseons planet least dense planet second largest planet largest most impressive ring system larger size than Earth lyear = 291/2 Earth years
28.	G	Wranus	gaseous planet tropped on its side larger When earth faint ring of dust is pins clackwise
29.	Н	Neptune	gaseous planet has large storm 5ystem like the Great DarkSpo larger size than early famtrice of dust coldest Planet