Unit 1 Study Guide Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_

1. Describe the difference in the geocentric theory and heliocentric theory of the solar system.

|  |  |
| --- | --- |
|  Geocentric theory |  Heliocentric theory |

1. The theory that scientists use to explain the formation of the universe is known as

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Label the diagram to show the correct relationship between the universe, earth, and galaxy:



1. Where is our solar system located in the Milky Way Galaxy? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Compare the planets:

|  |  |
| --- | --- |
|  Inner planets  |  Outer planets |
|  |  |

1. Compare and contrast these space objects:

|  |  |  |
| --- | --- | --- |
|  Comets |  Meteors |  Asteroids |
|  |  |  |

1. Label the model of our solar system:



1. Why do stars and constellations appear to move across the sky? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Describe the difference between gravity and inertia in movement of objects in space:

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1. Identify the object in our solar system based on the characteristics:

|  |  |
| --- | --- |
|  Characteristic |  Object |
| Rust-colored surface |  |
| Earth’s twin |  |
| Great Red Spot |  |
| Lots of liquid water |  |
| Lots of rings made of ice |  |
| Tilted 90 degrees |  |
| Dwarf planet |  |
| Smallest planet |  |
| Planet farthest from the sun  |  |
| Located between the inner planets and outer planets |  |
| The center of our solar system |  |