

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Unit 6: Astronomy STUDY GUIDE

### Part 1 – Seasons

1. What causes a planet to have seasons?
2. How long is Earth's rotation?
3. How long is Earth's revolution?

### Part 2 – Early Models

1. Draw a representation of the Heliocentric Model of the solar system. What is in the center?
2. Draw a representation of the Geocentric Model of the solar system. What is in the center?
3. According to the **Big Bang Theory** is the universe currently expanding or contracting?

### Part 3 – Galaxies

1. What is the name of our **galaxy**?
2. There are 3 types of galaxies: spiral, elliptical, and irregular. What kind is our galaxy?
2. Where is our solar system located in our galaxy?
3. Put these words in order from smallest to largest: galaxy, universe, solar system, planet

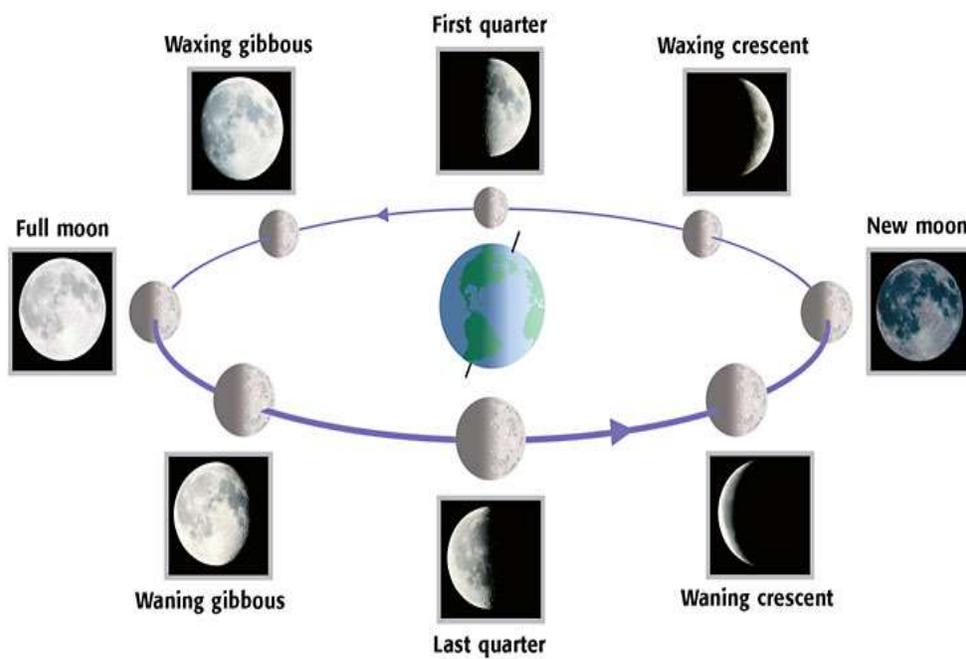
### Part 4 – Planets

1. List the planets in order, starting with the one closest to the Sun.
2. Which planet is more similar in size to the Earth?
3. What two forces allow the planets to stay in their orbit?
4. What are the 4 inner planets, and what do all inner planets have in common?
5. What are the 4 outer planets and what do all outer planets have in common?
6. What keeps the Earth's temperature in the right range (not too hot and not too cold) to support life?

## Part 6—Moon Phases

1. When the moon appears to be getting fuller from new moon to full moon, is it waxing or waning?
2. New moon is when the sun shines on the part of the moon we cannot see. This occurs when the Moon is between the Earth and the Sun. What is the name of the moon phase **1 week later** when we see about half of the moon?
3. Where is the moon in relation to the Earth and the Sun when we see a **full moon**?
4. How long does it take the moon to **revolve** around the Earth?

### PHASES OF THE MOON



## Part 8—Other objects in our solar system

1. Draw a comet with its ion tail and dust tail in the correct direction dependent on its orbit and its relation to the sun.
2. How does a comet form?
2. What creates craters?
3. What does a meteor look like, and how does it form?
4. What are asteroids, and where are most found?
5. Meteoroid, meteor, meteorite: where are each found?

