

Name: _____

Date: _____

Pd: _____

Astronomy Quest Study Guide

****Write your answers on a separate piece of paper and attach them behind this. ****

1. Define Astronomy
2. What did Ptolemy say about the universe?
3. What did Copernicus say about the universe?
4. What did Galileo see up close using a telescope?
5. Explain the universal laws of gravitation, given to us by Sir Isaac Newton
6. What did Hubble prove?
7. What is the axis of Earth?
8. What is a rotation? How long does one rotation take on Earth?
9. What is a revolution? How long does one revolution take on Earth?
10. Explain what causes the seasons on Earth
11. Draw a diagram of the Earth's revolution, using the four labels below:
 - a. Summer solstice
 - b. Winter solstice
 - c. Autumnal equinox
 - d. Vernal equinox
12. Explain how scientists believe the moon was formed
13. How big is the moon compared to Earth?
14. Describe the three main features of the moon:
 - a. Maria
 - b. Highlands
 - c. Craters
15. How long is one rotation on the Moon?
16. How long is one revolution on the Moon?
17. What are we seeing when we look at the moon at night? (why does it seem to glow?)
18. Draw and label the 8 phases of the moon, in order
19. What is an eclipse?
20. What is being blocked during a solar eclipse?
21. What is being blocked during a lunar eclipse?
22. What part of the shadow are you in if you see a total eclipse?
23. What part of the shadow are you in if you see a partial eclipse?
24. Explain how the moon is responsible for tides
25. What is a spring tide?
26. What is a neap tide?