

Name: _____ # _____ Date of Test _____

Chapter 4 Study Guide

1. The apparent shapes of the Moon in the sky are called its **phases**
2. When one object travels around another it is called **a revolution**
3. A(n) **axis** is a real or imaginary line that an object rotates around.
4. During a(n) **solar eclipse**, the Moon is between the Sun and Earth.
5. A pit on the Moon made by a meteoroid is called a(n) **crater**
6. Earth has an elliptical **orbit** around the Sun.
7. In a(n) **lunar eclipse**, Earth casts a shadow on the Moon.
8. The Moon's gravity pulls on Earth and causes **tides** in the ocean.
9. The Sun rises in the east and sets in the west due to its **apparent motion** on Earth.
10. Once every 24 hours, Earth completes one **rotation** .
11. A **sun rising in the east** is an example of apparent motion
12. Craters cover most of the surface of **the moon**
13. We see the moon at night because **it reflects the sun's light**
14. It takes **1 year** for the Earth to complete one revolution around the sun.
15. A solar eclipse happens when **the moon casts a shadow on the Earth**
16. Why is it safe to look at a **lunar** eclipse? **Because the sun's light isn't directly in your eyes**
17. Would the seasons be affected if the Earth wasn't tilted? **YES** **NO**
If so, how? **temperature and weather differences would change significantly**
18. What would happen if the Earth didn't rotate around the sun? **the amount of sun would be more or less depending on how the Earth was tilted.**
19. Is it possible to have life on the Moon? **NO**
 1. **the moon doesn't have an atmosphere**
 2. **temperatures are too extreme**
 3. **little to no water**
20. How were early calendars created? **Based on moon phases**