

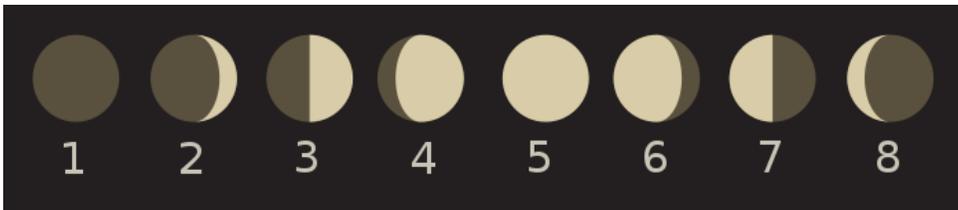
Name _____ Period _____

Review for Test – Earth, Moon, and Outer Space

1. What affects how much gravity there is between two objects?
2. Describe the Earth in terms of radius and diameter?
3. How large is the moon's diameter in comparison to the Earth?
4. How far is the Moon from the Earth in miles?
5. If I set up a model using a 1 foot diameter ball as the Earth, how far away would I place the moon?
6. What daily effect does the moon have on the Earth? How often does this change?
7. How far above the Earth would you find the International Space Station? _____ Satellites? _____
8. Describe how tides work.
9. What is the difference between waxing and waning?
10. Name all the planets, in order, from the Sun all the way out to Pluto (not a real planet).

Sun _____ _____ _____ _____ _____ _____ _____ _____ Pluto

11. What causes the phases of the moon?
12. Given the diagram below, label the phases of the moon, include waxing and waning where needed.



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

13. What is an eclipse?

14. What is the umbra and the penumbra?

Umbra _____

Penumbra _____

15. Describe what happens during a Lunar Eclipse.

16. Draw a diagram of a Lunar Eclipse.

17. Describe what happens during a Solar Eclipse.

18. Draw a diagram of a Solar Eclipse.

19. How far is it from the Earth to the Sun? _____ miles

20. If you are in a plane travelling at 500 mi/hr and someone walks by you at one mile per hour. You see that this walking is not fast. However, a person standing on a mountain sees the person inside the plane moving at 501 miles per hour. How is this so and what is it called when you have different observers and they both see different speeds and they are both right?

Name of this situation _____

How is it so?

21. On Earth you weigh 120 lbs. On Jupiter, we know that the relative gravity is 2.34. What would be your weight on Jupiter? _____ lbs

22. How far does light travel in one second? _____

23. Describe a light year.