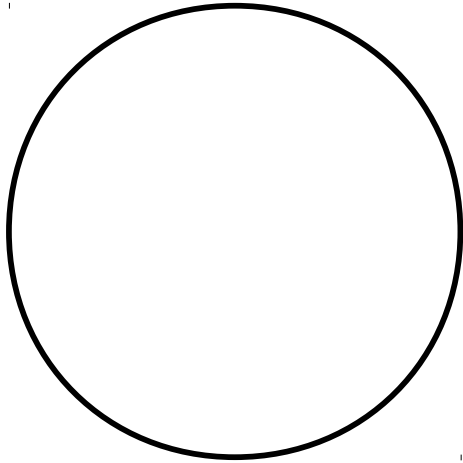


Name: _____ Block: _____ Date: _____

Space Test Study Guide

1. Draw and label the following places on the globe below:



Northern Hemisphere
Southern Hemisphere
Equator
Axis
North Pole
South Pole

2. During winter in Maine, the Northern Hemisphere is pointed _____ from the Sun. Draw a diagram, including the Sun and Earth at the correct angle:

3. During summer in Maine, the Northern Hemisphere is pointed _____ from the Sun. Draw a diagram, including the Sun and Earth at the correct angle:

4. Explain why temperatures tend to be hotter at the equator than other places on Earth:

5. TRUE OR FALSE: The reason we have seasons is that Earth is closer to the Sun in the summer and farther apart in the winter.

6. What causes the seasons on Earth? Be SPECIFIC (use the words *tilt*, *axis*, *angle*, *hemisphere*, *direct* and *indirect* in your answer)

7. What would happen to the seasons if the earth's axis was not on a tilt? Explain.

8. What is gravity?

9. Why is it inaccurate to say there is no gravity in space?

10. Explain in detail why you can jump farther on the Moon than you can on Earth.

11. What is the name of the scientific theory to describe how the Universe began?

12. How old do scientists think the Universe is?

13. TRUE OR FALSE: There are many stars in our Solar System.

Explain: _____

14. TRUE OR FALSE: All satellites are made by humans and launched into space.

Explain: _____

15. TRUE OR FALSE: The Moon is a satellite orbiting Earth.

16. Define orbit:

17. What is the name of the space station orbiting Earth?

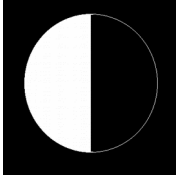
18. TRUE OR FALSE: Half of the Moon is always illuminated by the Sun.

Explain: _____

19. Draw and label a diagram showing the alignment of the Moon, Earth and Sun when we see a full moon:

20. Draw and label a diagram showing the alignment of the Moon, Earth and Sun when we see a new moon:

21. When half of the moon is illuminated from Earth (as seen on the right), why do we call it a *Quarter Moon* instead of a *Half Moon*?



22. What blocks our view of the Sun during a solar eclipse?

23. What blocks our view of the Moon during a lunar eclipse?

24. Draw a diagram showing the alignment of the Moon, Earth and Sun when we see a lunar eclipse:

25. Draw a diagram showing the alignment of the Moon, Earth and Sun when we see a solar eclipse:

26. Explain why Pluto is no longer considered a planet:

27. Challenge (not on the test) - Write the planets in the correct order: