

Name _____ Date _____ Hour _____

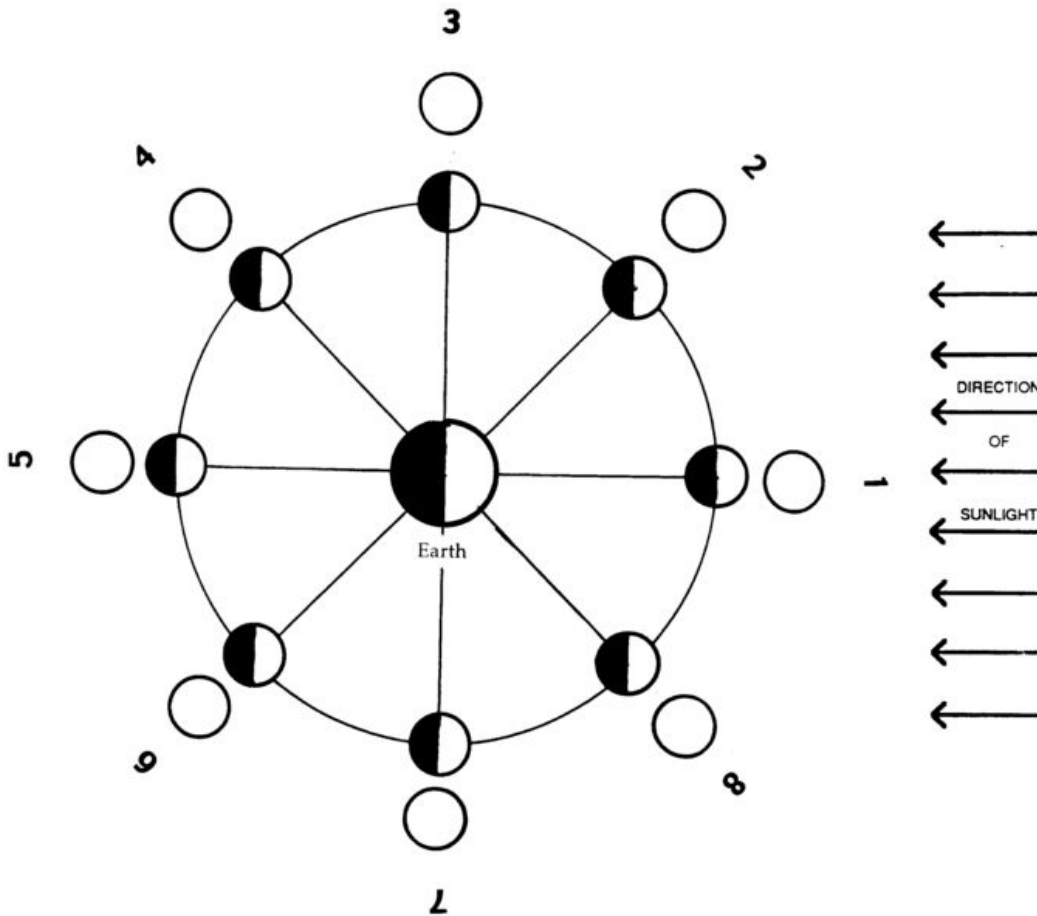
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Astronomy #4 - Moon Phases and Eclipses ALTERNATE

The diagram below represents the Moon orbiting the Earth as it would be viewed from space above the North Pole.

1-8. **Shade** and **label** the 8 empty circles to represent the phases of the moon as they would be viewed on Earth.

9-10. The Moon orbits the Earth in a _____ (clockwise, counter-clockwise) direction.
Draw and **label** an arrow on the diagram below to show the direction of the Moon's orbit.



11. How long does it take for the Moon to cycle through its phases? _____

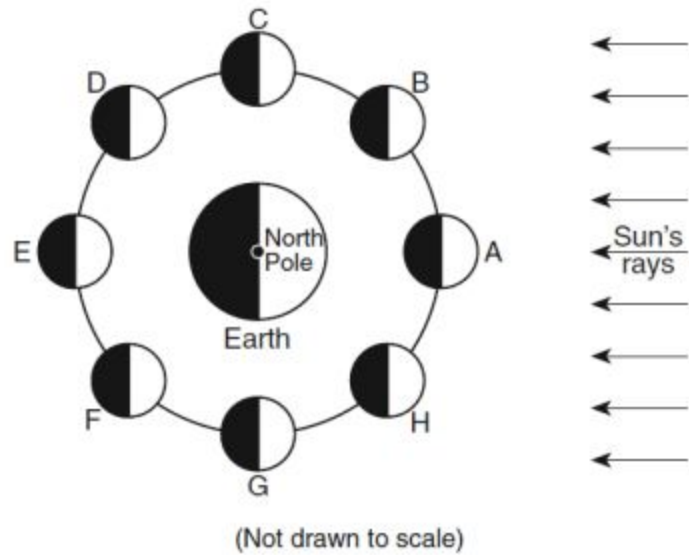
12. What is the difference between *waning* and *waxing* when talking about the moon?

13. Explain the "Light of the Moon".

There are two points in the Moon's orbit that can cause an eclipse to occur. On the diagram below, identify the two areas where an eclipse would occur.

14. A **solar** eclipse would occur when the Moon is located at letter _____

15. A **lunar** eclipse would occur when the Moon is located at letter _____



16. During a _____ (lunar, solar) eclipse the Moon is in the shadow of the Earth.

During a _____ (lunar, solar) eclipse the Earth is in the shadow of the Moon.

Use the diagrams below to show the position of the Moon during an eclipse.

Draw the Moon as a small circle showing its position at the time of each type of eclipse

17. **Lunar Eclipse**



18. **Solar Eclipse**

