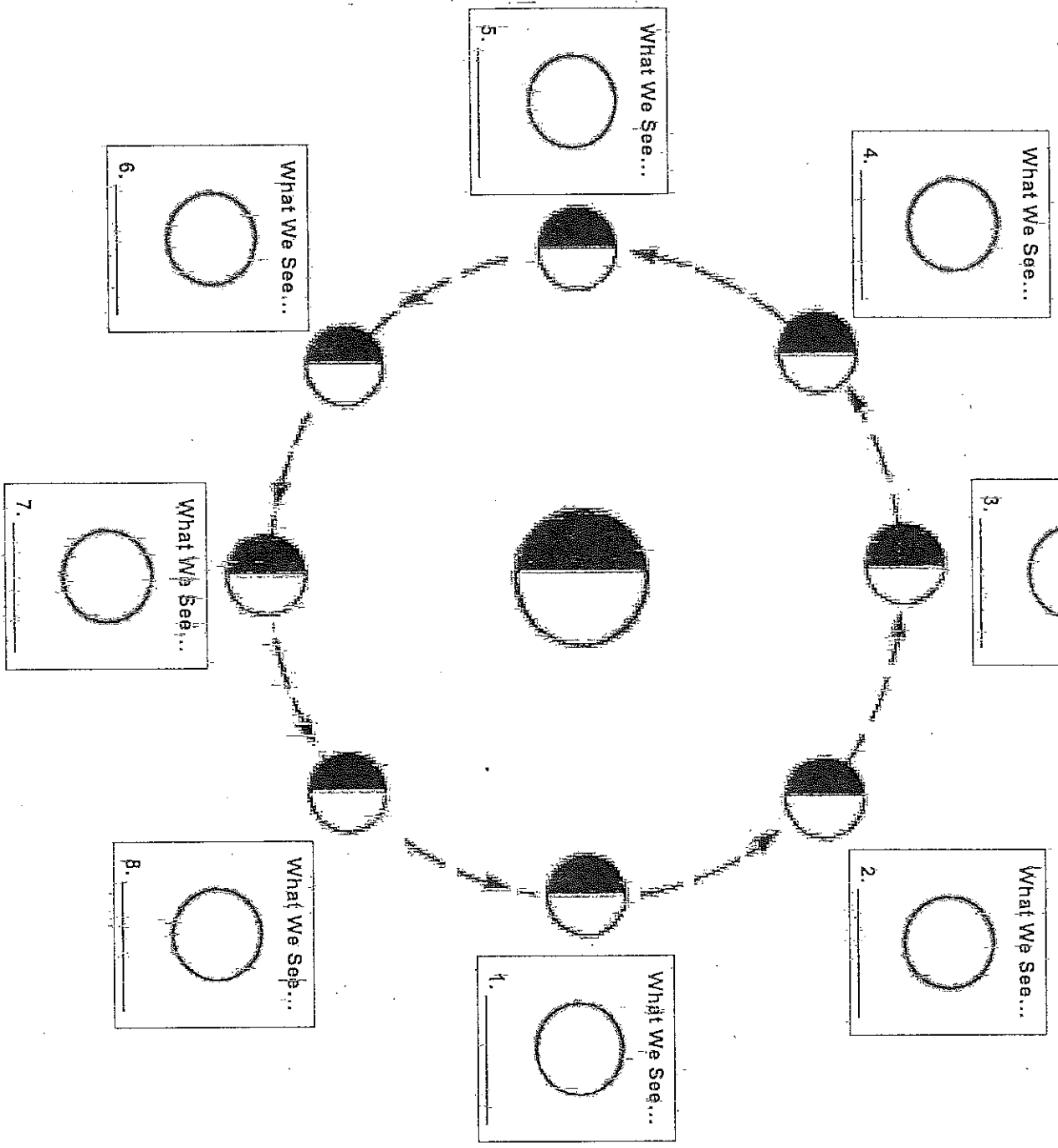
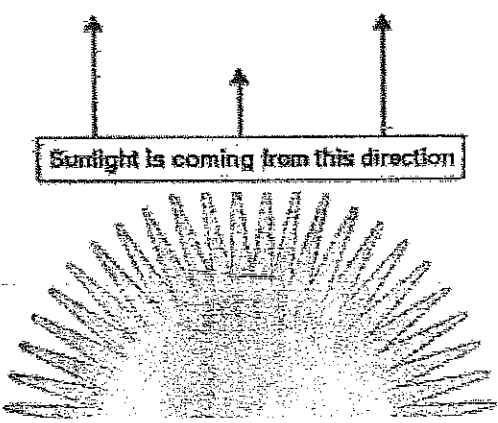


# Phases of the Moon Notes

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_



**Activating Strategy:**

**In your own words, describe why the moon looks different throughout the month.**

1. Describe the changes that occur in the moon known as phases. \_\_\_\_\_

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2. Why does the moon look illuminated (lit)? \_\_\_\_\_

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3. What causes moon phases? \_\_\_\_\_

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4. Why is the same side of the moon always facing the earth? \_\_\_\_\_

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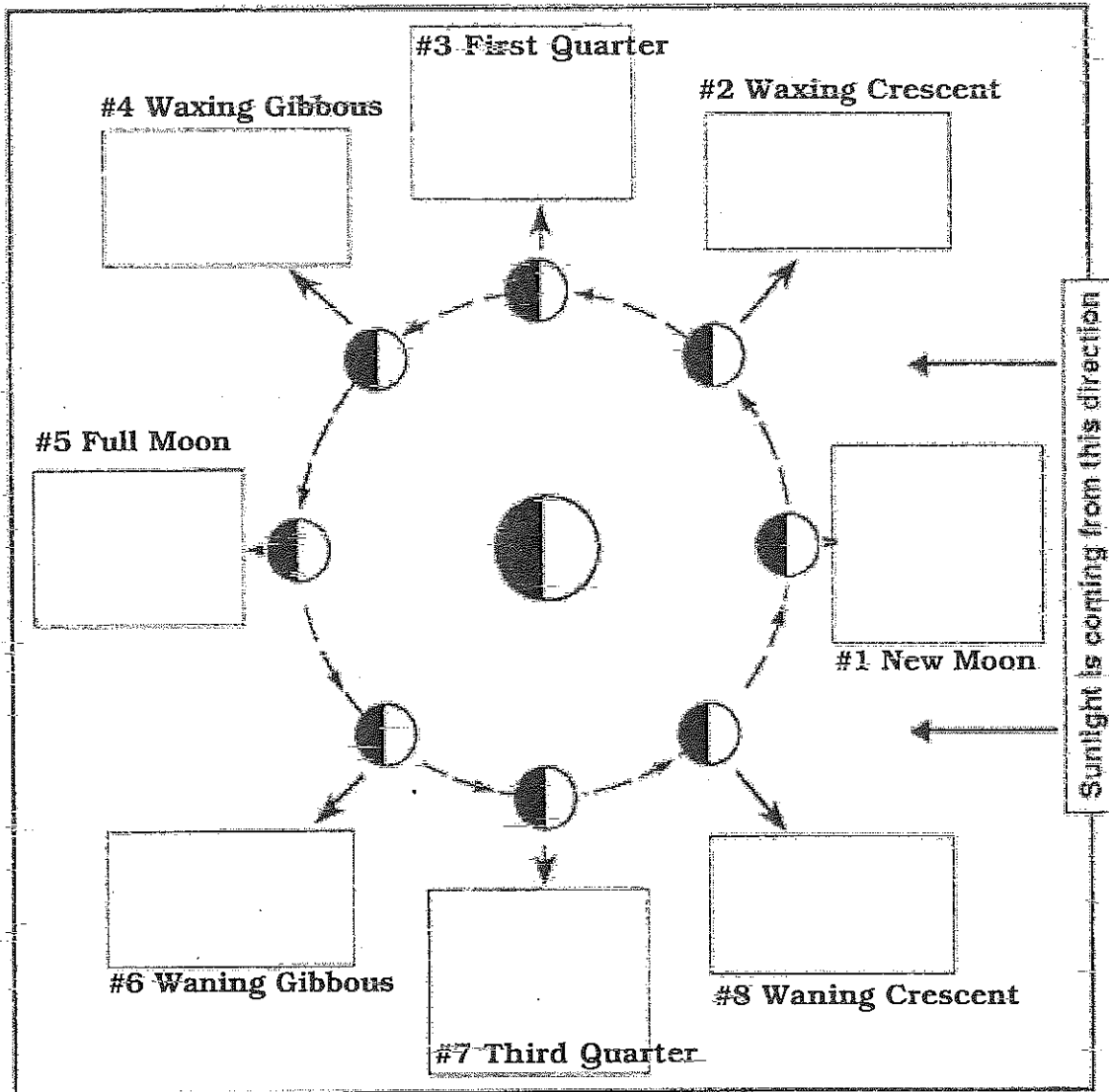
5. Can the moon be seen during the day? Explain. \_\_\_\_\_

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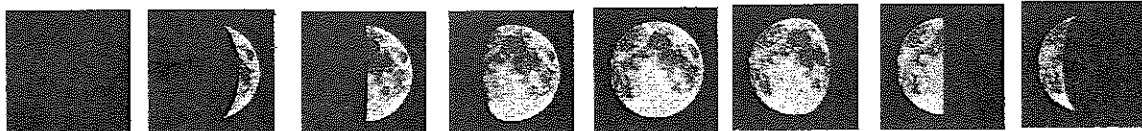
# Cut & Paste Moon Phases Activity

Name \_\_\_\_\_ Class \_\_\_\_\_



## Directions:

1. Cut out the eight moon phases below. Be careful not to cut off the Questions on the back of this page.
2. Paste in the correct position.
3. Answer the Questions on the back.



## PHASES OF THE MOON QUESTIONS

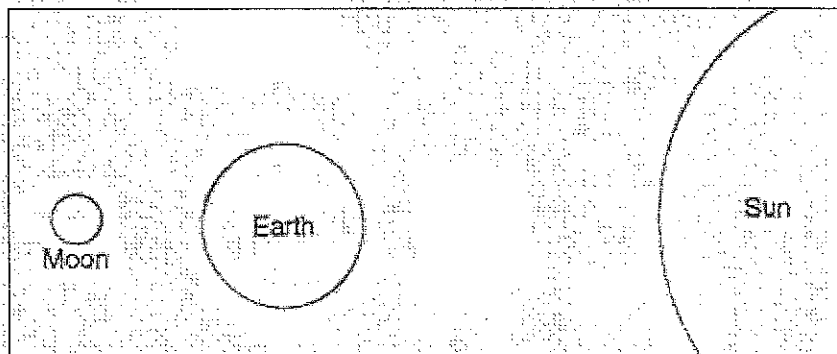
1. Moonlight comes from:
2. When the moon passes between the sun and the Earth, the side that faces the Earth is in darkness:
  - a. This phase is called (#1):
  - b. Since the new moon rises with the sun, it will be directly overhead at:
  - c. We CAN see the moon very faintly during this phase because:
3. As the moon begins its journey around the Earth, the lighted side begins to grow larger, or **wax**.
  - a. Give the name for phase (#2).
  - b. When will it be directly overhead?
4. The moon's cycle is approximately 28 days.
  - a. How long will it take to go 1/4 of the way around the Earth?
  - b. Name this phase (#3):
  - c. When will it be directly overhead?
5. The moon continues around the Earth. The lighted side continues to grow:
  - a. Give the name for phase (#4)
  - b. When will it be directly overhead?
6. The moon, in 14 days, has moved 1/2 way around the Earth, and has gotten bigger, **waxed**. From the diagram, it looks like the moon would be in Earth's shadow, yet the moon's orbit is tilted just enough so this seldom happens.
  - a. In this phase, (#5) what is the name?
  - b. When is it directly overhead?
7. As the moon continues on its journey around the Earth, the portion we see will begin to grow smaller, or **wane**.
  - a. Give the name for phase (#6).
  - b. When is it directly overhead?
8. The moon is now 3/4 of the way around the Earth.
  - a. What is this phase called (#7)?
  - b. When is it directly overhead?
  - c. How long has it taken for the moon to travel this far?
9. The moon continues to grow smaller, **wane**.
  - a. What is the name of phase (#8)?
  - b. When will it be directly overhead?
10. The moon now moves back into the new moon phase. (1).
  - a. How long did it take for the moon to travel all the way around the Earth?
  - b. If you were on the moon, would you see phases of the Earth?
  - c. Would they be the same as moon phases?

# Phases and Eclipses Summarizer

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

1. What causes the phases of the moon? \_\_\_\_\_

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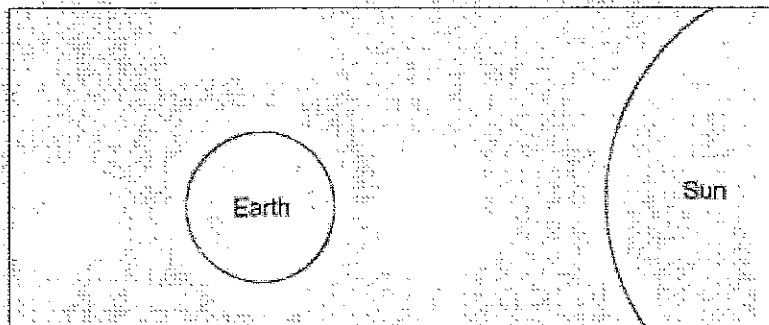


2. Based on the arrangement of the Earth, Sun, and Moon in the diagram above, which type of moon phase would most likely be seen from Earth? (S6E2a)

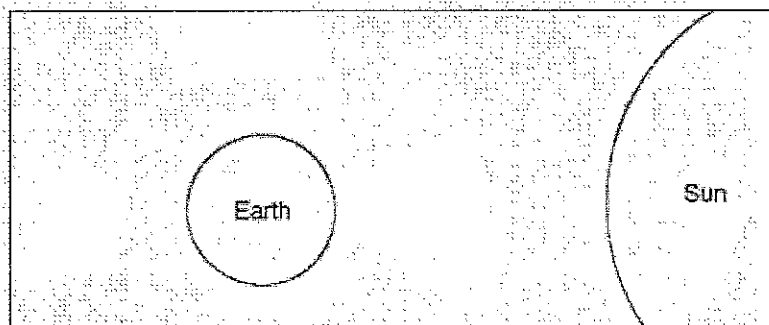
3. Based on the arrangement of the Earth, Sun, and Moon in the diagram above, which type of eclipse would most likely occur? (S6E2b)

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4. In the diagram below, draw the location of the moon for a New Moon to be observed on earth.



5. In the diagram below, draw the location of the moon for a solar eclipse to occur.

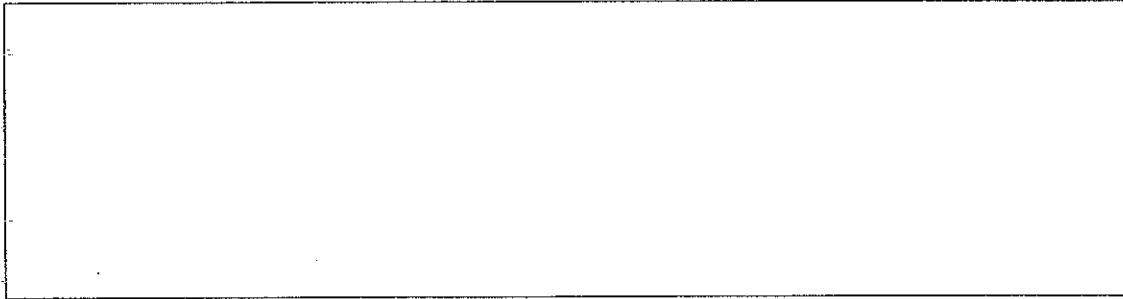


# Eclipse Notes

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

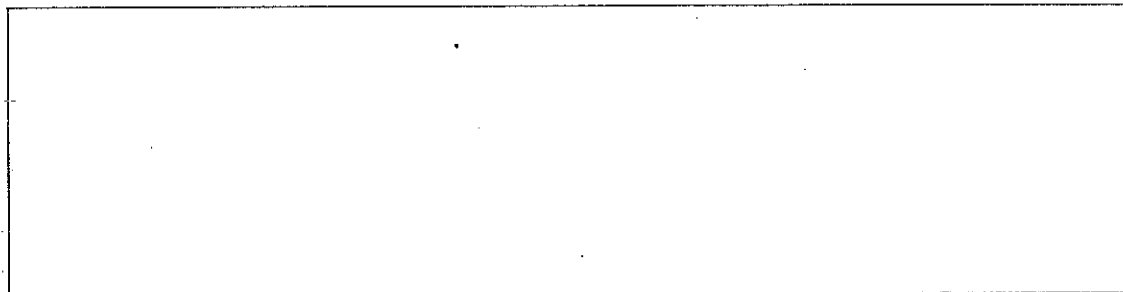
1. Describe a solar eclipse. \_\_\_\_\_

Draw a diagram illustrating the position of the Sun, Moon, and Earth during a solar eclipse.



2. Describe a lunar eclipse. \_\_\_\_\_

Draw a diagram illustrating the position of the Sun, Moon, and Earth during a lunar eclipse.



3. Describe the difference between a solar eclipse and a lunar eclipse.

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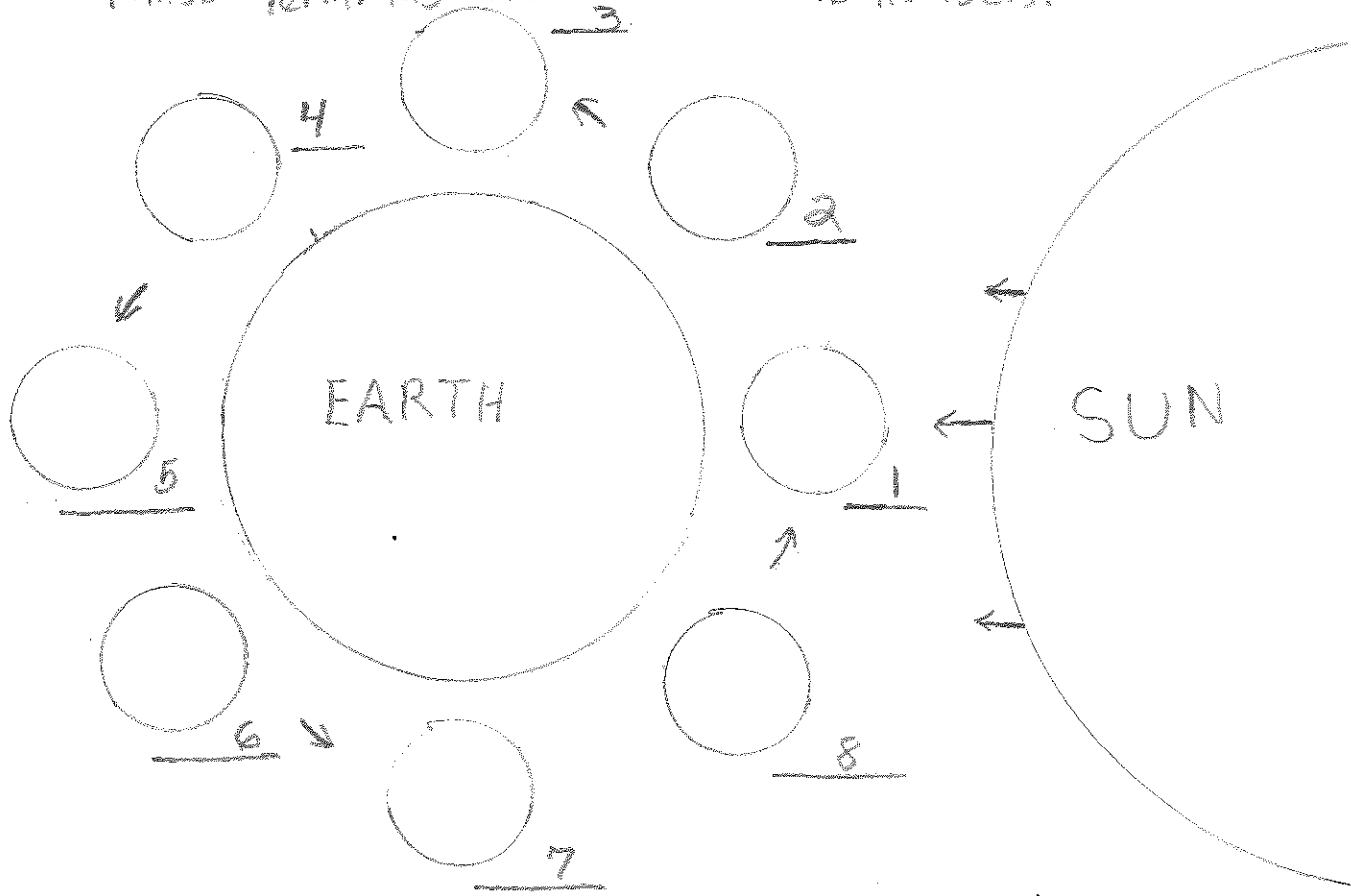
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# MOON PHASE QUIZ

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

1. New Moon
2. Waxing Gibbous
3. Waning Gibbous
4. 3rd (Last) Quarter
5. Waxing Crescent
6. Full Moon
7. 1st Quarter
8. Waning Crescent

Instructions: shade in the correct Moon that matches the above Moon Phase Term. Pay Attention to the Numbers.



TRUE OR FALSE:

9) Rotation is when the Moon travels Around the Earth?  
\_\_\_\_\_

10) The term Waxing Relates to gradually getting larger.  
\_\_\_\_\_