

Name: \_\_\_\_\_

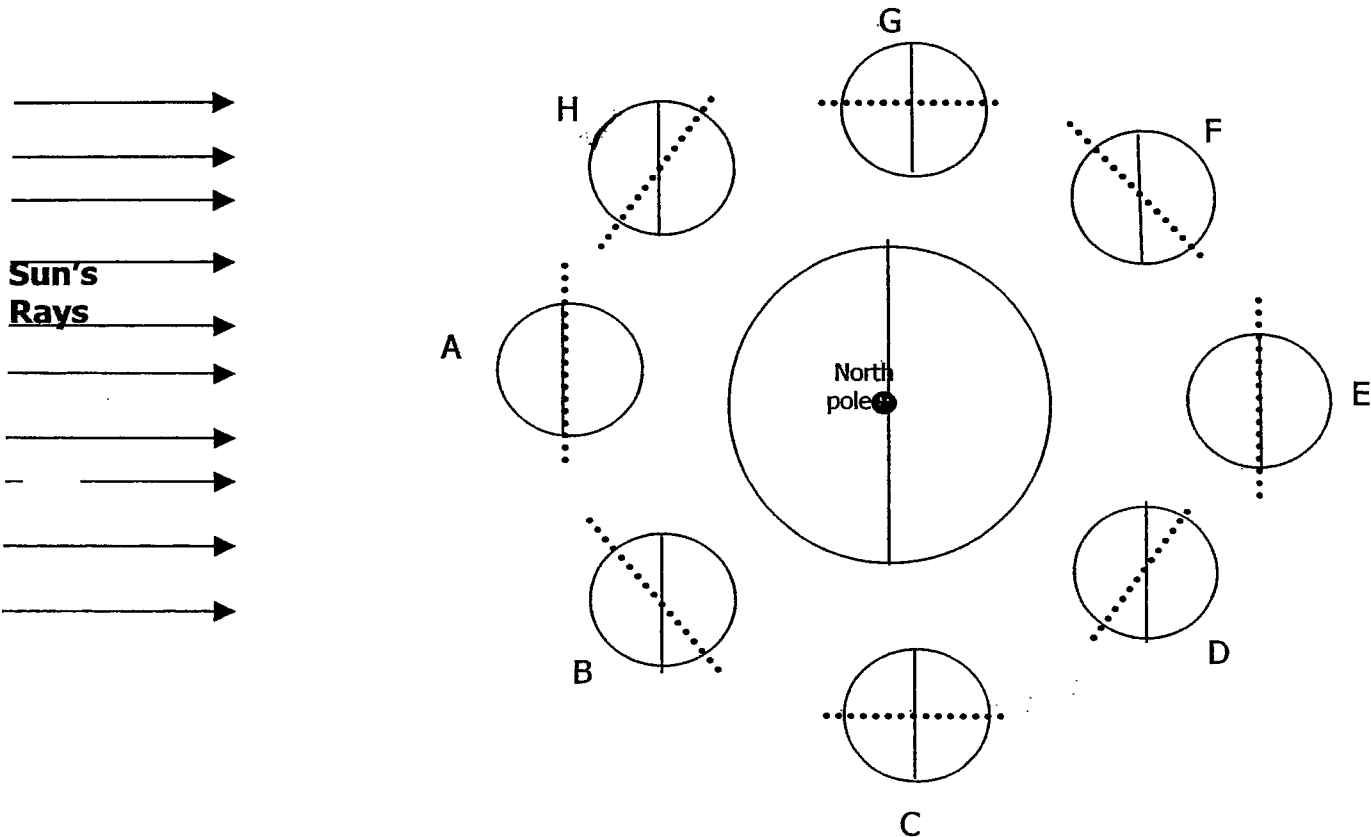
cw/hw \_\_\_\_\_

Date: \_\_\_\_\_

Astronomy

### LUNAR PHASES

Use the diagram below to answer the following questions. The diagram represents eight different positions of the moon as it orbits Earth. The arrows on the left of the page represent the sun's rays. The solid lines represent the half of the moon & Earth that is illuminated by the sun's rays. The dotted lines represent the portion of the moon that is visible to observers on the Earth.



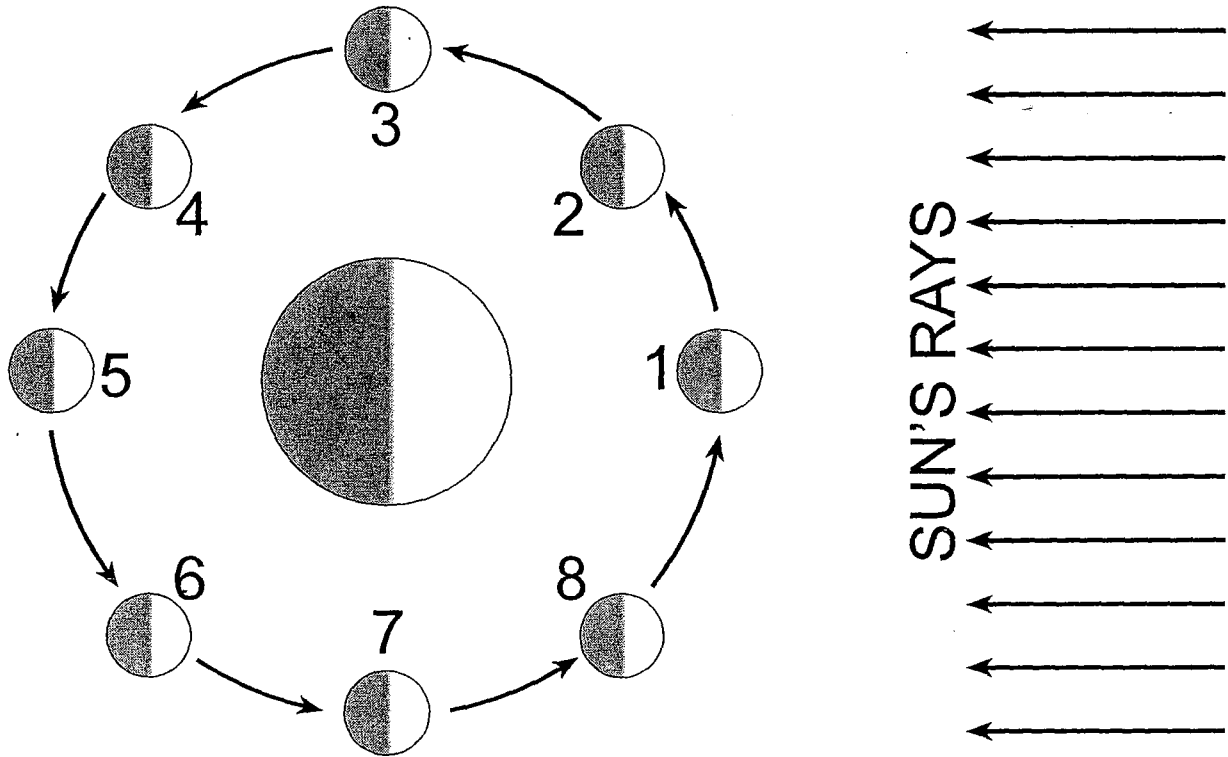
1. IN PENCIL, shade in the part of the 8 positions of the moon and the Earth that is NOT illuminated by the sun's rays.
2. In the boxes below, fill in the missing phases of the moon as viewed by an observer on the Earth.



A                      B                      C                      D                      E                      F                      G                      H

NAME \_\_\_\_\_  
by Charles Burrows

DATE \_\_\_\_\_



Use the diagram above to answer the following questions. The diagram shows the Earth, the Sun's rays, and the Moon at eight different positions on its orbit. Write the number(s) of the appropriate position next to each of the following events.

- 1) full moon \_\_\_\_\_
- 2) new moon \_\_\_\_\_
- 3) first quarter \_\_\_\_\_
- 4) third quarter \_\_\_\_\_
- 5) waning crescent \_\_\_\_\_
- 6) waxing crescent \_\_\_\_\_
- 7) waning gibbous \_\_\_\_\_
- 8) waxing gibbous \_\_\_\_\_
- 9) spring tide \_\_\_\_\_ & \_\_\_\_\_
- 10) neap tide \_\_\_\_\_ & \_\_\_\_\_
- 11) lunar eclipse \_\_\_\_\_
- 12) solar eclipse \_\_\_\_\_