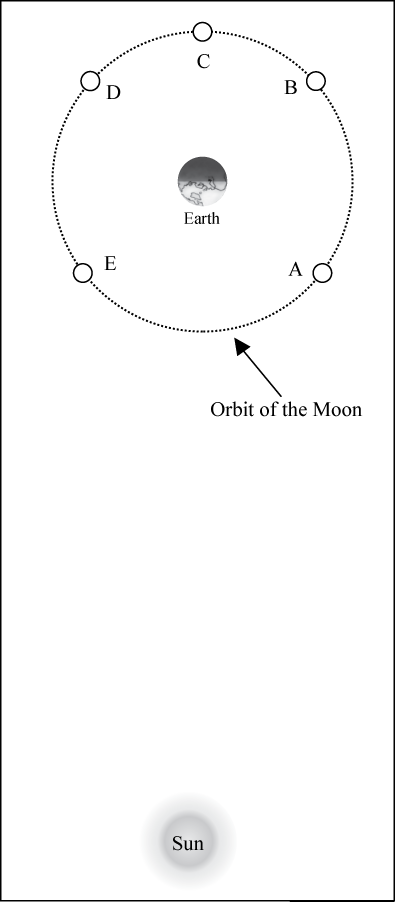
**Astronomy Assessment and TPS Questions:**

**Cause of Moon Phases**

1. Which Moon position (A-E), shown in the diagram at right, best corresponds with the moon phase shown below?



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1. During the full moon phase, how much of the total Moon’s surface is being illuminated by sunlight?
2. none
3. less than half
4. half
5. more than half
6. all
7. During the waxing crescent phase, how much of the total Moon’s surface is being illuminated by sunlight?
8. none
9. less than half
10. half
11. more than half
12. all
13. During the new moon phase, how much of the Moon’s total surface is being illuminated by sunlight?
14. none
15. all
16. less than half
17. half
18. more than half
19. During the full moon phase, how much of the illuminated portion of the Moon’s surface is visible from Earth?
20. none
21. all
22. less than half
23. more than half
24. half
25. During the first quarter moon phase, how much of the illuminated portion of the Moon’s surface is visible from Earth?
26. none
27. all
28. less than half
29. more than half
30. half
31. During the new moon phase, how much of the illuminated portion of the Moon’s surface is visible from Earth?
32. none
33. all
34. less than half
35. more than half
36. half
37. Which of the following best describes why the Moon goes through phases?
    1. Earth's shadow falls on different parts of the Moon at different times.
    2. Earth’s clouds cover portions of the Moon at various times resulting in the changing phases that we see.
    3. We see only part of the lit-up surface of the Moon depending on its position relative to Earth and the Sun.
    4. The sunlight reflected from Earth lights up the Moon but is less effective when the Moon is lower in the sky than when it is higher in the sky.
38. The diagram below shows Earth and the Sun as well as five different possible positions for the Moon. Which position of the Moon best corresponds with the phase of the Moon shown in the figure at the right?

Sun

NOT TO SCALE

Orbit of the Moon

Earth

A

B

C

D

E

1. How often does the “New Moon” phase occur?
2. every day/ night
3. once a week
4. once every two weeks
5. once a month
6. once a year
7. Which one of the following is a reason why we see Moon phases?
   1. Earth’s shadow on the Moon
   2. The Sun’s shadow on the moon
   3. The Moon’s orbit of Earth
   4. Earth’s orbit of the Sun
8. Approximately how long does it take for the Moon to go from a waning gibbous to the third quarter phase?
   1. 1 week
   2. 3 hours
   3. 4 days
   4. 5 months