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SOL 4.7 SOLAR SYSTEM

Key concepts include

- a) the planets in the solar system;
- b) the order of the planets in the solar system; and
- c) the relative sizes of the planets.

IMPORTANT:

SOL 4.7 has recently changed from a focus on the Earth-Moon relationship to a focus on our Solar System.

The released questions below tested the old standards. Only the first questions on planets apply to the new content.

PLANETS

- 1. If the Earth moved farther away from the sun, which of these would probably happen?
- (2005 test question 1)
 - b. There would be more solar eclipses.
 - There would be colder weather.

There would be no moon.

- d. There would be more seasons.
- 2. How is the Earth different from all of the other planets?

(2005 test - question 15)

- a. It has a breathable atmosphere.
- b. It has a rocky surface.
- c. It is warmed by the sun.
- d. It rotates on its axis.
- 3. The Earth is very different from other planets in the solar system because it has the most —

(2003 test – question 39)

- a. solid rock
- b. volcanoes
- c. liquid water
- d. high winds

MOON PHASES



4. The phases of the Moon occur in a certain order. Three phases are shown here. Which is the next phase in the sequence?

(2008 test - question 17)

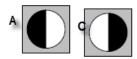






5. Which of the following is the next phase of the moon?

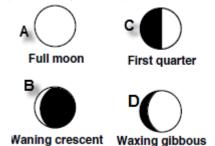
(2004 test - question 26)







6. Which of these is the next phase of the moon? (2002 test – question 14)



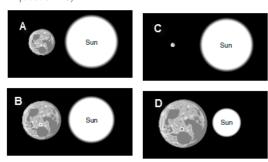
MOON CHARACTERISTICS

- 7. The surface of the *Moon* is made up of (2011 test question 35)
 - a. craters, highlands, and flat areas
 - b. swirling gases
 - c. large bodies of water
 - d. a mixture of gases and water
- 8. Which of these best describes the Moon? (2009 test question 8)
 - a. Older than Earth
 - b. Smaller than Earth
 - c. Having the same climate as Earth
 - d. Having the same atmosphere as Earth
- About 400 years ago, Galileo became the first person to record what the moon looked like through a telescope. He was able to tell that the moon had —

(2006 test - question 35)

- a. many craters
- b. plants but no animals
- active volcanoes
- d. polar ice caps
- 10. Sometimes you can see the moon during the daytime. The moon looks the same size as the sun, but the moon is 1/400 the size of the sun. Which of these best shows the size of the moon relative to the sun?

(2006 test - question 40)



EARTH – MOON RELATIONSHIP

11. Which of these objects in the solar system has been visited by people from Earth?

(2010 test – question 10)

- a. Moon
- b. Sun
- c. Mars
- d. Asteroid

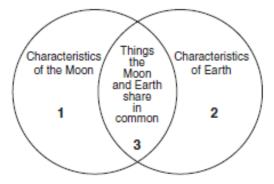
12. The Apollo 11 mission was able to retrieve samples of the Moon's surface because it was the first mission to have astronauts —

(2009 test - question 3)

- a. land on the Moon
- b. orbit a planet
- c. return to Earth
- d. walk in space
- 13. The moon revolves around —

(2001 test - question 8)

- a. itself
- b. the Earth
- c. the sun
- d. the solar system



14. Which of these would fit best in area 3 of this Venn diagram?

(2007 test - question 32)

- a. Rocky surface
- b. Active volcanoes
- c. Liquid water presentOxygen in atmosphere
- 15. The distance between which of these is the shortest?

(2003 test - question 30)

- a. Earth and sun
- b. Moon and sun
- c. Earth and Mars
- d. Earth and moon

ROTATION AND REVOLUTION

16. Which of these is the most responsible for the changes of the seasons on Earth?

(2010 test – question -25)

- a. Position of the Moon
- b. Tilt of Earth on its axis
- c. Temperature of the Sun
- d. Distance to Mars

17. Which of these takes about one year to complete? (2010 test – question 32)

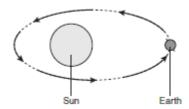
- a. Earth to orbit the Sun
- b. The Sun to orbit Earth
- c. Earth to rotate on its axis
- d. The Moon to orbit Earth
- 18. Earth makes a complete revolution around the Sun about once every —

(2008 test – question 9)

- a. day
- b. year
- c. season
- d. minute
- 19. Which of these describes rotation?

(2009 test - question 22)

- a. Mercury goes around the Sun every 88 days.
- b. The Moon goes around Earth every 28 days.
- c. Earth orbits the Sun about every 365 days.
- Earth makes one turn on its axis every 24 hours.



20. The motion of Earth around the Sun most affects

(2007 test - question 14)

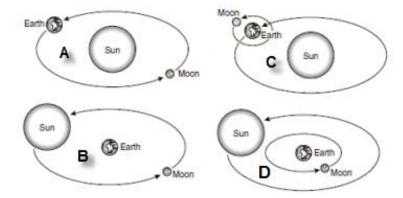
- a. timing of tides
- b. length of a month
- c. cycle of the seasons
- d. phases of the Moon
- 21. The time between today's sunrise and tomorrow's sunrise would be about —

(2003 test - question 4)

- a. 12 hours
- b. 24 hours
- c. 36 hours
- d. 48 hours

22. Which of these best shows that the Earth revolves around the sun as the moon revolves around the Earth?

(2004 test - question 30)



- 23. The rotation of the Earth on its axis causes (2002 test question 21)
 - a. seasons
 - b. years
 - c. months
 - d. days