

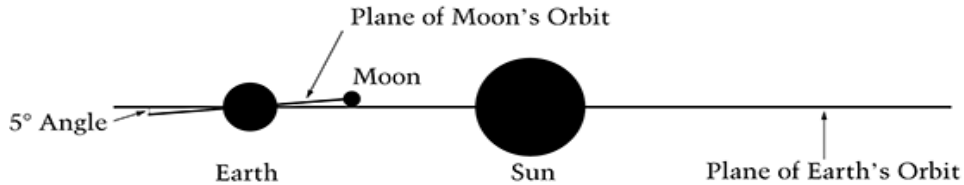
Name: _____

Date: _____ Class: _____

Earth in the Universe

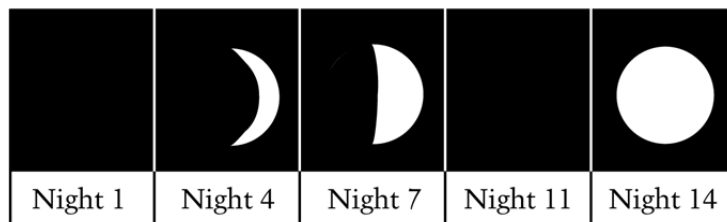
1. Earth revolves around the Sun, and the Moon revolves around Earth. The Moon's orbital path is sometimes above and sometimes below the plane of Earth's orbit, as shown in the diagram below.

VIEW OF SUN, EARTH, AND MOON ALONG PLANE OF EARTH'S ORBIT

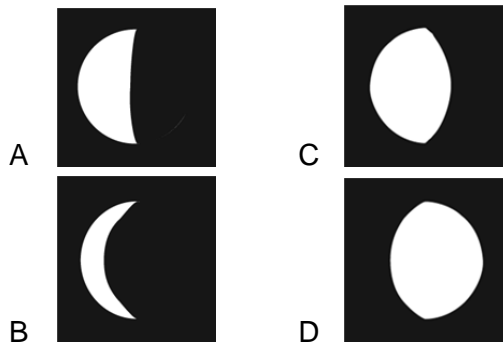


What would happen if Earth's orbit and the Moon's orbit were in the same plane? (6.E.1.1)

- A Eclipses would occur every month.
 - B The Moon would not have phases.
 - C All sides of the Moon would be visible from Earth.
 - D The same side of the Moon would always face the Sun.
2. Jennifer drew what the Moon looked like just after sunset every third or fourth night. Her drawings for the nights she observed the Moon are shown below.



On Night 11 the clouds were so thick that Jennifer could not see the Moon. Based on the drawings for the other nights, what would Jennifer have seen on Night 11 if the sky were clear? (6.E.1.1)



3. Which of the following best explains why the Sun appears to move across the sky every day? (6.E.1.1)
- A The Sun rotates on its axis.
 - B Earth rotates on its axis.
 - C The Sun orbits around Earth.
 - D Earth orbits around the Sun.
4. If you wanted to be able to look at the stars, the planets, and the Moon more closely, what should you use? (6.E.1.3)
- A Telescope
 - B Periscope
 - C Microscope
 - D Magnifying glass
5. The Earth's Moon is (6.E.1.1)
- A always much closer to the Sun than it is to the Earth
 - B always much closer to the Earth than it is to the Sun
 - C about the same distance from the Sun as it is from the Earth
 - D sometimes closer to the Sun than it is to the Earth and sometimes closer to the Earth than it is to the Sun
6. What property of water is most important for living organisms? (6.E.1.2)
- A It is odorless.
 - B It does not conduct electricity.
 - C It is tasteless.
 - D It is liquid at most temperatures on Earth.
7. Which planet contains oceans and frozen ice caps? (6.E.1.2)
- A Jupiter
 - B Mars
 - C Earth
 - D Neptune
8. What planet has a very hot surface and is most like Earth in size? (6.E.1.2)
- A Venus
 - B Mars
 - C Mercury
 - D Uranus
9. When the people on Earth cannot see a moon, which phase is the moon in? (6.E.1.1)
- A Full Moon
 - B Waxing Crescent
 - C New Moon
 - D Waxing Gibbous
10. The chemical makeup of the Sun is (6.E.1.2)
- A hydrogen & oxygen
 - B oxygen & helium
 - C hydrogen & helium
 - D hydrogen, helium, & sulfate

11. Which is the eighth planet from the Sun? (6.E.1.2)

- A Earth
- B Mars
- C Jupiter
- D Neptune

12. Which best explains why Earth has tides? (6.E.1.1)

- A. Earth orbits the Sun.
- B. Earth rotates on its axis.
- C. The Sun has a gravitational pull on Earth.
- D. The Moon has a gravitational pull on Earth.

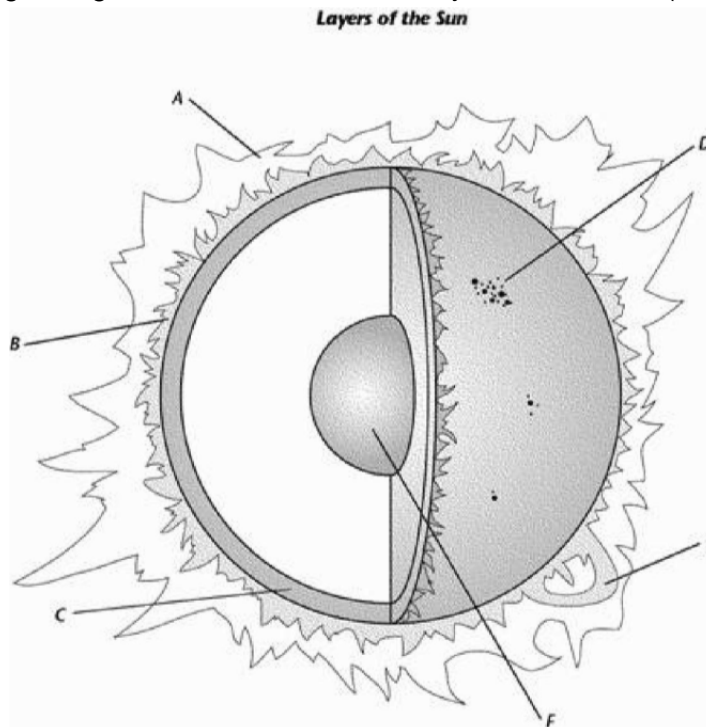
13. Where do Earth's oceans bulge in response to the Moon's gravitational attraction to produce tides? (6.E.1.1)

- A. the side facing the Moon
- B. the side opposite the Moon
- C. the sides at right angles to the Moon
- D. the sides facing and opposite the Moon

14. Which property makes Earth unique compared to other planets in the solar system? (6.E.1.2)

- A. It orbits the Sun.
- B. It has liquid water.
- C. It is a rocky planet.
- D. It rotates on its axis.

15. Using the figure below, what are the objects in area D? (6.E.1.2)



- A Coronas
- B Solar flares
- C Chromospheres
- D Sunspots

16. What does Earth's rotation cause? (6.E.1.1)

- A a year
- B the seasons
- C day and night
- D eclipses

17. Earth's axis is tilted with respect to Earth's orbit at an angle of (6.E.1.1)

- A 90 degrees.
- B 45 degrees.
- C 30 degrees.
- D 23.5 degrees.

18. Earth has seasons because (6.E.1.1)

- A its axis is tilted as it moves around the sun.
- B the temperature of the sun changes.
- C it rotates on its axis.
- D the distance between Earth and the sun changes.

19. Firefighters wear jackets that resist fire. The special fabric in these jackets was originally developed for which use? (6.E.1.3)

- A space suits
- B rocket fuel
- C spaceship windows
- D baby blankets

20. During what phase of the moon can a lunar eclipse occur? (6.E.1.1)

- A new moon
- B first quarter
- C waxing gibbous
- D full moon