

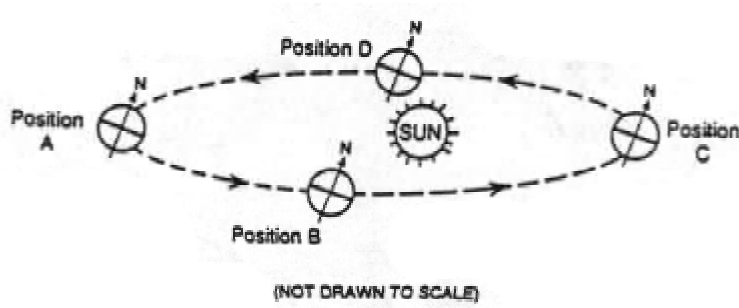
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Earth Motions Practice #4

- Which is the best evidence for Earth's rotation?
 - the rising of the sun
 - the phases of the moon
 - the changing of the seasons
 - the motion of a Foucault pendulum
- What causes the Coriolis Effect?
 - high and low pressure belts
 - the Earth's revolution
 - the equatorial calms
 - the Earth's rotation
- In its orbit around the Sun, approximately how many degrees per day does the Earth revolve?
 - 1 degree
 - 3 degrees
 - 15 degrees
 - 0 degrees
- The star Sirius is observed in the evening sky during the month of January. At the end of 4 hours, Sirius will appear to have moved.
 - 60 degrees
 - 45 degrees
 - 3 degrees
 - 0 degrees
- Based on observations made in the Northern Hemisphere, which statement is the best supporting evidence that the Earth rotates on its axis?
 - The stars appear to follow daily circular paths around Polaris.
 - The apparent solar diameter varies throughout the year.
 - The length of daylight period varies throughout the year.
 - The seasons repeat in a cyclic pattern.
- The apparent rising and setting of the Sun as seen from Earth are caused by
 - rotation of the Sun
 - rotation of the Earth
 - revolution of the Earth
 - revolution of the Sun
- In the geocentric model of the solar system which motion would occur?
 - The Earth would revolve around the Sun.
 - The Earth would rotate on its axis.
 - The Moon would revolve around the Sun.
 - The Sun would revolve around the Earth.
- The Earth's rate of rotation is _____
- How many hours of daylight does any location on the Earth experience on an equinox? _____
- Which model of the solar system placed the Sun at the center with planets revolving around it? _____
- What causes the different seasons experienced by locations on the Earth? _____
- Define retrograde motion. _____
According to the heliocentric model, is it a real or apparent motion? _____

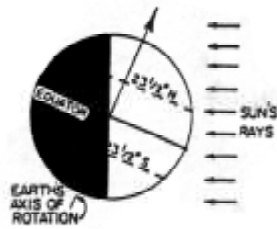
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13. Which position represents the first day of winter in the Northern Hemisphere?



Answer:

14. What is the date shown in the diagram below?



15. Give two facts concerning June 21.

16. What date represents the first day of Spring?

17. What is the definition of rotation of a planet?

18. During which season is the Earth farthest from the Sun?

19. On which date does the Northern Hemisphere have the least daylight hours?

20. What does the term perihelion mean?
