
Assessment 1

1. What is the approximate time taken by the Earth to complete one full rotation on its axis?
2. Explain the cause of changing seasons on Earth in quantitative terms.
3. Describe the apparent daily motion of the Sun as observed from Earth.
4. Calculate the average orbital speed of a planet with an average radius of 300 million kilometers and an orbital period of 5 Earth years.
5. List the four primary seasons and explain the astronomical events associated with each season.
6. How is the strength of the gravitational field at the surface of a planet related to its mass?
7. State Kepler's third law of planetary motion and explain how it affects the orbital speeds of planets in the Solar System.
8. What are the differences between terrestrial planets and gas giants? How do these differences relate to the accretion model for Solar System formation?
9. Calculate the time it takes for light to travel from Earth to Mars when they are at their closest approach (approximately 56 million kilometers apart). Use the speed of light as 299,792 kilometers per second.
10. Why do planets, minor planets, and comets have elliptical orbits? Describe the positioning of the Sun within these elliptical orbits.
11. Analyze the data for Earth's average orbital distance, orbital duration, density, surface temperature, and surface gravitational field strength.
12. Compare the surface temperatures of Venus and Mars. Why is there such a difference in their temperatures despite both being relatively close to the Sun?
13. What information does the average density of a planet provide about its internal composition?
14. Based on the planetary data, which planet in the Solar System has the longest orbital duration, and how long does it take to complete one orbit around the Sun?
15. Explain the significance of Earth's axial tilt in relation to the changing seasons.
16. Calculate the average speed at which a point on Earth's equator moves due to the planet's rotation on its axis. Assume Earth's radius is approximately 6,371 kilometers and the rotational period is 24 hours.
17. Describe the apparent daily motion of the Sun at the Equator during the equinoxes.
18. How does the length of day and night change at different latitudes on Earth throughout the year? Provide an explanation based on the axial tilt and the position of the Sun in the sky.
19. Define a solstice and an equinox in quantitative terms.
20. Calculate the angle of the Sun's rays at noon on the summer solstice at a location with a latitude of 40 degrees North. (Assume the axial tilt is 23.5 degrees).
21. Compare the lengths of daylight at the Arctic Circle (66.5 degrees North) during the summer solstice and the winter solstice. Use the axial tilt and the latitude of the Arctic Circle to explain the difference in daylight hours.

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