

Solar System Phenomena and Exploration

Science · Answer Key · 12 Questions

1. What is the time taken by a planet to turn once around its own axis called?

- A) Revolution
- B) Rotation**
- C) Orbit
- D) Tilt

2. What is the time taken by a planet to revolve once around the sun called?

- A) Rotation
- B) Orbit
- C) Year**
- D) Day

3. Which two planets in our solar system have no sub-planets (moons)?

- A) Earth and Mars
- B) Jupiter and Saturn
- C) Mercury and Venus**
- D) Uranus and Neptune

4. Which planet has the longest rotational time?

- A) Earth
- B) Venus**
- C) Mars
- D) Jupiter

5. Which planet has the shortest rotational time?

- A) Earth
- B) Venus
- C) Mars
- D) Jupiter**

6. What causes seasonal changes on Earth?

- A) Rotation of the Earth
- B) Revolution of the Earth with a tilt**
- C) Solar flares
- D) The Earth's magnetic field

7. What is the tilt of the Earth's axis to its orbital plane?

- A) 0 degrees
- B) 90 degrees
- C) 23.5 degrees**
- D) 45 degrees

8. Why do phases of the moon occur?

- A) The moon emits its own light
- B) The Earth blocks the sun's light
- C) The changing angle at which we view the illuminated portion of the moon**
- D) The moon's shadow on the Earth

9. What are the two main types of eclipses?

- A) Solar and Lunar**
- B) Planetary and Stellar
- C) Galactic and Universal
- D) Red and Blue

10. What is the name of the area where a total solar eclipse can be seen?

- A) Penumbra
- B) Umbra**
- C) Corona
- D) Shadow

11. What force keeps planets in orbit around the sun?

- A) Frictional force
- B) Magnetic force
- C) Gravitational force**
- D) Electrical force

12. In which hemisphere is it winter when it is summer in the northern hemisphere?

- A) Eastern
- B) Western
- C) Southern**
- D) None