

Solar System and Celestial Objects

Astronomy · Answer Key · 11 Questions

1. What is the approximate age of our solar system?

- A) 5 billion years**
- B) 1 billion years
- C) 10 billion years
- D) 5 million years

2. What primarily caused the lighter elements to be blown away from planets close to the Sun?

- A) Gravity
- B) Radiation from the Sun**
- C) Volcanic activity
- D) Asteroid impacts

3. Which of these planets have deep atmospheres of gas or frozen solid layers?

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

4. What powers stars?

- A) Chemical reactions
- B) Nuclear fusion**
- C) Radio waves
- D) Electromagnetism

5. Approximately how long does it take for the moon to orbit the Earth?

- A) 28 days**
- B) 365 days
- C) 7 days
- D) 14 days

6. What causes the phases of the moon?

- A) Earth's shadow
- B) The sun lighting different parts of the moon**
- C) Volcanic eruptions on the moon
- D) Changes in the moon's shape

7. What happens when chunks of rock from space meet Earth's atmosphere?

- A) They become new moons
- B) They glow and disintegrate**
- C) They create new planets
- D) They cause earthquakes

8. Why do comets have tails?

- A) Due to their high speed
- B) Radiation boils off frozen materials**
- C) Due to their magnetic field
- D) Because they are burning

9. What is needed to "see" something?

- A) Sound waves
- B) Light waves entering the eye**
- C) Feeling it
- D) Smelling it

10. What produces the night-and-day cycle on Earth?

- A) The Earth's orbit around the sun
- B) The Earth's rotation on its axis**
- C) The moon's orbit around the Earth
- D) Solar flares

11. What do telescopes allow us to see?

- A) Fewer stars
- B) More distant objects in the sky**
- C) Only the planets
- D) Only the moon