

Elementary Astronomy Challenge

Astronomy · Answer Key · 25 Questions

1. Which planet is known for its prominent rings, which are made of ice and rock particles?

- A) Jupiter
- B) Saturn**
- C) Uranus
- D) Neptune

2. What is the closest star to Earth?

- A) Proxima Centauri
- B) Alpha Centauri A
- C) Sirius
- D) The Sun**

3. Which of these is NOT a dwarf planet in our solar system?

- A) Pluto
- B) Ceres
- C) Eris
- D) Titan**

4. What phenomenon causes day and night on Earth?

- A) The Moon orbiting the Earth
- B) The Earth revolving around the Sun
- C) The Earth rotating on its axis**
- D) The Sun moving around the Earth

5. What celestial body orbits the Earth?

- A) Mars
- B) Venus
- C) The Moon**
- D) The Sun

6. Which gas makes up the majority of the Sun's composition?

- A) Oxygen
- B) Nitrogen
- C) Helium
- D) Hydrogen**

7. What is the name of our galaxy?

- A) Andromeda
- B) Triangulum
- C) The Milky Way**
- D) Whirlpool

8. Which planet is often called Earth's 'twin' due to its similar size and mass?

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

9. What causes the different phases of the Moon?

- A) The Earth's shadow falling on the Moon
- B) The Sun's light reflecting off the Moon as it orbits Earth**
- C) Clouds in Earth's atmosphere blocking the view
- D) The Moon changing its size

10. Which planet is known as the 'Red Planet'?

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

11. What are comets primarily made of?

- A) Rock and metal
- B) Gas and plasma
- C) Ice, dust, and rock**
- D) Liquid water

12. Which planet is the largest in our solar system?

- A) Saturn
- B) Jupiter**
- C) Neptune
- D) Uranus

13. What is the most common type of star in the universe?

- A) Blue giants
- B) White dwarfs
- C) Red dwarfs**
- D) Supergiants

14. What causes shooting stars?

- A) Small stars falling from the sky
- B) Pieces of rock and dust burning up in Earth's atmosphere**
- C) Spaceships travelling at high speed
- D) Reflections from the Moon

15. Which is the only planet in our solar system that is known to have liquid water on its surface?

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

16. What is the outermost layer of the Sun's atmosphere called?

- A) Photosphere
- B) Chromosphere
- C) Corona**
- D) Core

17. Which planet takes the longest time to orbit the Sun?

- A) Uranus
- B) Neptune**
- C) Saturn
- D) Jupiter

18. What are the rocky bodies that orbit the Sun, mostly found between Mars and Jupiter?

- A) Comets
- B) Meteoroids
- C) Asteroids**
- D) Moons

19. What is the process by which stars produce energy?

- A) Photosynthesis
- B) Nuclear fission
- C) Nuclear fusion**
- D) Combustion

20. Which planet is closest to the Sun?

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

21. What causes a solar eclipse?

- A) The Earth passing between the Sun and the Moon
- B) The Moon passing between the Sun and the Earth**
- C) The Sun disappearing behind a cloud
- D) The Moon casting a shadow on the Sun

22. What force keeps planets in orbit around the Sun?

- A) Magnetism
- B) Gravity**
- C) Centrifugal force
- D) Friction

23. Which planet has the Great Red Spot, a giant storm?

- A) Saturn
- B) Mars
- C) Jupiter**
- D) Neptune

24. What is a large, glowing ball of hot gas that produces its own light and heat?

- A) Planet
- B) Moon
- C) Asteroid
- D) Star**

25. Which of these is a terrestrial planet?

- A) Jupiter
- B) Saturn
- C) Neptune
- D) Venus**