

Middle School Astrophysics Quiz

Astrophysics · Practice Test · 25 Questions

1. Which planet in our solar system has the most extensive and visible ring system?

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

2. What is the primary gas that makes up the majority of the Sun's mass?

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

3. Which galaxy is the closest large spiral galaxy to the Milky Way?

- A) Andromeda
- B) Triangulum
- C) Sombrero
- D) Whirlpool

4. What is the term for the path an object takes as it revolves around another object in space?

- A) Axis
- B) Orbit
- C) Rotation
- D) Trajectory

5. Which planet is known as the 'Red Planet' due to iron oxide on its surface?

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

6. What is the name of the force that pulls objects toward the center of a planet or star?

- A) Magnetism
- B) Gravity
- C) Inertia
- D) Friction

7. How long does it take for light from the Sun to reach Earth?

- A) 8 minutes
- B) 1 hour
- C) 24 hours
- D) 30 seconds

8. What type of celestial object is at the center of our solar system?

- A) Black Hole
- B) Neutron Star
- C) Main Sequence Star
- D) Red Giant

9. Which planet has the longest 'year' (time to orbit the Sun)?

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

10. What is the largest planet in our solar system?

- A) Saturn
- B) Jupiter
- C) Neptune
- D) Earth

11. Between which two planets is the main Asteroid Belt located?

- A) Earth and Mars
- B) Mars and Jupiter
- C) Jupiter and Saturn
- D) Venus and Earth

12. Which celestial body is classified as a 'dwarf planet'?

- A) Pluto
- B) Mercury
- C) Titan
- D) Ganymede

13. What do astronomers call a massive explosion that occurs at the end of a high-mass star's life cycle?

- A) Supernova
- B) Nebula
- C) Pulsar
- D) Quasar

14. What is the name of the region of space where gravity is so strong that not even light can escape?

- A) Event Horizon
- B) Black Hole
- C) Singularity
- D) White Dwarf

15. Which planet rotates on its side, with an axial tilt of nearly 98 degrees?

- A) Neptune
- B) Uranus
- C) Saturn
- D) Venus

16. What is the phase of the Moon when it is completely invisible from Earth?

- A) Full Moon
- B) First Quarter
- C) New Moon
- D) Waxing Crescent

17. Which planet has the highest surface temperature, despite not being the closest to the Sun?

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

18. What are the dark, cooler areas on the surface of the Sun called?

- A) Solar Flares
- B) Sunspots
- C) Prominences
- D) Corona

19. How many planets in our solar system have known natural satellites (moons)?

- A) Four
- B) Six
- C) Eight
- D) Seven

20. What is the name of the galaxy that contains our Solar System?

- A) Andromeda
- B) Milky Way
- C) Pinwheel
- D) Black Eye

21. What is a light-year a measure of?

- A) Time
- B) Speed
- C) Distance
- D) Brightness

22. Which planet has a prominent storm known as the 'Great Red Spot'?

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

23. What is the collection of dust and gas from which stars are born called?

- A) Nebula
- B) Comet
- C) Galaxy
- D) Asteroid

24. Which planet is known as the 'Morning Star' or 'Evening Star' because of its brightness?

- A) Mercury
- B) Venus
- C) Mars
- D) Saturn

25. What holds the planets in their orbits around the Sun?

- A) Magnetic fields
- B) Solar wind
- C) Gravitational pull
- D) Atmospheric pressure