

Astronomy & Physics

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ID	Question	Correct Answer	Choice 1	Choice 2	Choice 3	Difficulty	Knowledge Category
1	What is the largest planet in our Solar System?	Jupiter	Saturn	Uranus	Neptune	0	Astronomy
2	What force keeps planets in orbit around the sun?	Gravity	Electromagnetic	Nuclear	Friction	0	Physics
3	Who formulated the laws of motion?	Isaac Newton	Albert Einstein	Galileo Galilei	Johannes Kepler	0	Physics
4	What is the speed of light in a vacuum?	299,792 km/s	150,000 km/s	1,000,000 km/s	75,000 km/s	1	Physics
5	Which planet is known as the "Red Planet"?	Mars	Venus	Mercury	Jupiter	0	Astronomy
6	What is the primary component of the sun?	Hydrogen	Helium	Oxygen	Carbon	1	Astronomy
7	Who developed the theory of general relativity?	Albert Einstein	Niels Bohr	Max Planck	Richard Feynman	1	Physics
8	What is the most abundant element in the universe?	Hydrogen	Helium	Oxygen	Carbon	1	Astronomy
9	What is the unit of force in the International System of Units (SI)?	Newton	Joule	Watt	Pascal	0	Physics
10	Which planet has the most extensive ring system?	Saturn	Jupiter	Uranus	Neptune	0	Astronomy
11	What phenomenon explains the bending of light	Gravitational Lensing	Doppler Effect	Photoelectric Effect	Quantum Tunneling	2	Physics

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	around massive objects?						
12	What is the term for a star's explosive death?	Supernova	Nova	Red Giant	White Dwarf	1	Astronomy
13	Which law states that the volume of a gas is inversely proportional to its pressure?	Boyle's Law	Charles's Law	Avogadro's Law	Pascal's Law	2	Physics
14	What is the closest star to Earth?	Proxima Centauri	Alpha Centauri A	Alpha Centauri B	Barnard's Star	1	Astronomy
15	What is the term for the distance light travels in one year?	Light-Year	Astronomical Unit	Parsec	Kilometer	0	Astronomy
16	Which planet is closest to the sun?	Mercury	Venus	Earth	Mars	0	Astronomy
17	What is the name of our galaxy?	Milky Way	Andromeda	Triangulum	Whirlpool	0	Astronomy
18	Who is known for the uncertainty principle in quantum mechanics?	Werner Heisenberg	Erwin Schrödinger	Paul Dirac	Max Born	2	Physics
19	What is the term for the apparent change in frequency of a wave due to the motion of the source or observer?	Doppler Effect	Redshift	Blueshift	Interference	1	Physics
20	Which planet is known for its Great Red Spot?	Jupiter	Saturn	Neptune	Uranus	0	Astronomy
21	What is the term for the path of an object as it moves around another object in space?	Orbit	Trajectory	Revolution	Rotation	0	Astronomy
22	What is the second most abundant	Oxygen	Nitrogen	Argon	Carbon Dioxide	1	Physics

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	element in the Earth's atmosphere?						
23	What is the name of the effect that causes the sky to appear blue?	Rayleigh Scattering	Mie Scattering	Tyndall Effect	Diffraction	2	Physics
24	Which planet has the highest surface temperature in the Solar System?	Venus	Mercury	Mars	Earth	1	Astronomy
25	What is the term for the smallest particle of an element that retains its chemical properties?	Atom	Molecule	Proton	Electron	0	Physics
26	Who proposed the heliocentric model of the Solar System?	Nicolaus Copernicus	Galileo Galilei	Johannes Kepler	Ptolemy	1	Astronomy
27	What is the term for the measure of the amount of matter in an object?	Mass	Weight	Density	Volume	0	Physics
28	Which planet is known as the "Morning Star" or "Evening Star"?	Venus	Mercury	Mars	Jupiter	1	Astronomy
29	What is the term for the force that opposes the motion of objects through air?	Air Resistance	Gravity	Tension	Normal Force	1	Physics
30	What is the name of the boundary around a black hole beyond which nothing can escape?	Event Horizon	Singularity	Photon Sphere	Accretion Disk	2	Astronomy

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1	What is the term for the point in a planet's orbit closest to the Sun?	Perihelion	Aphelion	Perigee	Apogee	2	Astronomy
2	Which fundamental force is responsible for holding atomic nuclei together?	Strong Nuclear Force	Electromagnetic Force	Weak Nuclear Force	Gravitational Force	2	Physics
3	What is the name of the effect that causes light from distant galaxies to appear redshifted?	Doppler Effect	Gravitational Lensing	Cosmic Microwave Background	Hubble's Law	2	Astronomy
4	Which planet in our solar system has the shortest day, completing one rotation in about 10 hours?	Jupiter	Saturn	Neptune	Uranus	1	Astronomy
5	What is the term for the hypothetical boundary around a black hole beyond which no information can escape?	Event Horizon	Singularity	Schwarzschild Radius	Photon Sphere	2	Astronomy
6	Who is credited with the discovery of the electron?	J.J. Thomson	Ernest Rutherford	Niels Bohr	James Clerk Maxwell	1	Physics
7	What is the primary cause of Earth's seasons?	Tilt of Earth's Axis	Distance from the Sun	Earth's Orbital Shape	Solar Activity	1	Astronomy
8	Which element is the most abundant in the Earth's crust?	Oxygen	Silicon	Aluminum	Iron	1	Physics
9	What is the term for the apparent shift in position of a nearby star against the background of distant objects	Parallax	Proper Motion	Redshift	Aberration	2	Astronomy

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	due to Earth's orbit?						
10	Which law states that the pressure of a gas is directly proportional to its temperature, provided volume is constant?	Gay-Lussac's Law	Boyle's Law	Charles's Law	Avogadro's Law	2	Physics
11	What is the name of the closest exoplanet to Earth, located in the Proxima Centauri system?	Proxima Centauri b	Kepler-186f	Gliese 581g	TRAPPIST-1d	2	Astronomy
12	Which principle in quantum mechanics states that certain pairs of physical properties cannot be simultaneously known to arbitrary precision?	Heisenberg Uncertainty Principle	Pauli Exclusion Principle	Schrödinger's Equation	Planck's Constant	2	Physics
13	What is the term for the measure of a star's brightness as seen from Earth?	Apparent Magnitude	Absolute Magnitude	Luminosity	Flux	1	Astronomy
14	Which planet has a moon named Titan, the only moon known to have a dense atmosphere?	Saturn	Jupiter	Neptune	Uranus	1	Astronomy
15	What is the term for the change in frequency of a wave in relation to an observer moving relative to the source of the wave?	Doppler Effect	Redshift	Blueshift	Interference	1	Physics
16	Who proposed the three laws	Johannes Kepler	Galileo Galilei	Isaac Newton	Tycho Brahe	1	Astronomy

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	of planetary motion describing the orbits of planets around the Sun?						
17	What is the name of the boundary in the solar system beyond which the Sun's solar wind is no longer dominant?	Heliopause	Kuiper Belt	Oort Cloud	Asteroid Belt	2	Astronomy
18	Which fundamental particle is responsible for mediating the electromagnetic force?	Photon	Electron	Neutrino	Gluon	2	Physics
19	What is the term for the time it takes for half of a radioactive substance to decay?	Half-Life	Decay Constant	Mean Lifetime	Activity	1	Physics
20	Which planet in our solar system has the highest density?	Earth	Mercury	Venus	Mars	1	Astronomy
21	What is the term for the effect where a rotating body experiences a force perpendicular to the direction of rotation and the axis of rotation?	Coriolis Effect	Centrifugal Force	Centripetal Force	Lorentz Force	2	Physics
22	Who is known for the law stating that the volume of a gas is directly proportional to its temperature at constant pressure?	Jacques Charles	Robert Boyle	Amedeo Avogadro	Blaise Pascal	2	Physics
23	What is the name of the	Olympus Mons	Mauna Kea	Mount Everest	Vesuvius	1	Astronomy

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	largest volcano in the solar system, located on Mars?						
24	Which type of electromagnetic radiation has the shortest wavelength?	Gamma Rays	X-Rays	Ultraviolet Light	Infrared Light	1	Physics
25	What is the term for the hypothetical form of matter that makes up approximately 27% of the universe's mass-energy content?	Dark Matter	Dark Energy	Antimatter	Neutrinos	2	Astronomy
26	Who is credited with the discovery of the planet Uranus?	William Herschel	Galileo Galilei	Johannes Kepler	Nicolaus Copernicus	2	Astronomy
27	What is the term for the lowest possible temperature, where all molecular motion ceases?	Absolute Zero	Freezing Point	Zero Kelvin	Cryogenic Point	1	Physics