Advanced Chemistry for Young Explorers

Chemistry · Answer Key · 10 Questions

1. What tiny, positively charged particle is located inside the nucleus of an atom?

A) Proton
B) Electron
C) Neutron
D) Photon

2. Which negatively charged particle orbits around the outside of an atom's nucleus?

A) Proton
B) Electron
C) Neutron
D) Quark

3. What is formed when two or more atoms chemically bond together?

A) Molecule
B) Proton
C) Cell
D) Mineral

4. Which chemical element has the symbol 'O' on the periodic table?

A) Gold
B) Oxygen
C) Osmium
D) Hydrogen

5. What super-hot state of matter consists of electrically charged gas, like that found in lightning and stars?

A) Solid
B) Liquid
C) Gas
D) Plasma

6. How many hydrogen atoms are bound to one oxygen atom in a single molecule of water (H_2O)?

A) One
B) Two
C) Three
D) Four

7. What type of chemical bond forms when two atoms share electrons with each other?

A) Covalent bond
B) Magnetic bond
C) Gravitational bond
D) Thermal bond

8. On the pH scale from 0 to 14, what number represents a neutral substance like pure water?

A) 0
B) 7
C) 10
D) 14

9. What is the term for a substance that speeds up a chemical reaction without being used up itself?

A) Catalyst
B) Inhibitor
C) Solvent
D) Isotope

10. According to the Law of Conservation of Mass, what happens to the total mass of matter during a chemical reaction in a closed container?

A) It increases
B) It decreases to zero
C) It stays the same
D) It turns into solid gold

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