

Physical Science Essentials

Physical Science · Practice Test · 15 Questions

1. Which subatomic particle carries a negative electrical charge?

- A) Proton
- B) Neutron
- C) Electron
- D) Positron

2. What is the unit of measurement for electrical resistance?

- A) Volt
- B) Ampere
- C) Ohm
- D) Watt

3. Which state of matter is defined by having a definite volume but no definite shape?

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

4. What is the process called when a substance changes directly from a solid to a gas?

- A) Condensation
- B) Sublimation
- C) Evaporation
- D) Deposition

5. Which law states that for every action, there is an equal and opposite reaction?

- A) Newton's First Law
- B) Newton's Second Law
- C) Newton's Third Law
- D) Archimedes' Principle

6. What is the primary gas that makes up the majority of Earth's atmosphere?

- A) Oxygen
- B) Carbon Dioxide
- C) Nitrogen
- D) Hydrogen

7. In chemistry, what does the pH scale measure?

- A) Temperature of a solution
- B) Acidity or alkalinity
- C) Density of a liquid
- D) Electrical conductivity

8. Which type of electromagnetic radiation has the longest wavelength?

- A) Radio waves
- B) X-rays
- C) Ultraviolet
- D) Gamma rays

9. What is the term for the energy an object possesses due to its motion?

- A) Potential energy
- B) Thermal energy
- C) Kinetic energy
- D) Chemical energy

10. Which element is the primary component of organic compounds?

- A) Oxygen
- B) Nitrogen
- C) Carbon
- D) Iron

11. What is the speed of light in a vacuum approximately?

- A) 300,000 km/s
- B) 150,000 km/s
- C) 1,000,000 km/s
- D) 3,000 km/s

12. Which force opposes the motion of two surfaces sliding past one another?

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

13. What process involves the splitting of an atomic nucleus into two or more smaller nuclei?

- A) Nuclear fusion
- B) Nuclear fission
- C) Radioactive decay
- D) Chemical synthesis

14. What is the chemical symbol for the element Gold?

- A) Gd
- B) Au
- C) Ag
- D) Fe

15. Which scale is the SI base unit for temperature?

- A) Celsius
- B) Fahrenheit
- C) Kelvin
- D) Rankine