

Basic Chemistry Knowledge

Chemistry · Answer Key · 20 Questions

1. What is the chemical symbol for water?

- A) O₂
- B) H₂O**
- C) CO₂
- D) NaCl

2. Which element is the most abundant in the Earth's atmosphere?

- A) Oxygen
- B) Carbon Dioxide
- C) Nitrogen**
- D) Argon

3. What is the common name for a substance with a pH of 7?

- A) Acidic
- B) Basic
- C) Neutral**
- D) Alkaline

4. Which of the following is a noble gas?

- A) Oxygen
- B) Hydrogen
- C) Neon**
- D) Chlorine

5. What is the chemical symbol for gold?

- A) Ag
- B) Au**
- C) Fe
- D) Cu

6. What state of matter has a definite shape and definite volume?

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

7. What is the smallest unit of an element that retains the chemical properties of that element?

- A) Molecule
- B) Compound
- C) Atom**
- D) Ion

8. Which element has the atomic number 1?

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

9. What type of bond involves the sharing of electrons between atoms?

- A) Ionic bond
- B) Metallic bond
- C) Covalent bond**
- D) Hydrogen bond

10. What is the chemical symbol for iron?

- A) Au
- B) Ag
- C) Fe**
- D) Na

11. Which gas is essential for respiration in humans?

- A) Carbon Dioxide
- B) Nitrogen
- C) Oxygen**
- D) Methane

12. What is the process called when a liquid changes into a gas?

- A) Condensation
- B) Freezing
- C) Evaporation**
- D) Melting

13. What is the most common element in the universe?

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

14. What is the chemical symbol for sodium?

- A) K
- B) Na**
- C) Cl
- D) Mg

15. What is the term for a substance that cannot be broken down into simpler substances by chemical means?

- A) Compound
- B) Mixture
- C) Element**
- D) Molecule

16. What is the process called when a gas changes into a liquid?

- A) Evaporation
- B) Melting
- C) Sublimation
- D) Condensation**

17. What is the chemical symbol for carbon?

- A) Ca
- B) C**
- C) Co
- D) Cr

18. Which of the following is an example of a compound?

- A) Oxygen (O₂)
- B) Gold (Au)
- C) Salt (NaCl)**
- D) Iron (Fe)

19. What is the term for a substance that increases the rate of a chemical reaction without being consumed?

- A) Inhibitor
- B) Catalyst**
- C) Solvent
- D) Reactant

20. What is the chemical symbol for copper?

A) Ag

B) Au

C) Fe

D) Cu