

Elementary Chemistry Concepts

Chemistry · Answer Key · 8 Questions

1. Which state of matter has particles that are packed tightly together and vibrate in a fixed position?

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

2. What is the chemical name for the substance commonly known as table salt?

- A) Sodium chloride**
- B) Calcium carbonate
- C) Magnesium sulfate
- D) Potassium nitrate

3. Which of these processes describes a substance changing from a gas directly to a solid without becoming a liquid first?

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

4. Which element is represented by the chemical symbol 'Fe' on the periodic table?

- A) Fluorine
- B) Iron**
- C) Francium
- D) Fermium

5. What is the pH value of pure water at room temperature, considered to be neutral?

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

6. Which gas makes up approximately 78% of Earth's atmosphere?

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen**
- D) Hydrogen

7. When vinegar (an acid) is mixed with baking soda (a base), which gas is produced to create bubbles?

- A) Oxygen
- B) Carbon dioxide**
- C) Helium
- D) Methane

8. Which term describes a mixture where one substance is evenly dissolved into another, such as salt in water?

- A) Suspension
- B) Colloid
- C) Solution**
- D) Emulsion