

Elementary Chemistry Facts

Chemistry · Answer Key · 15 Questions

1. What is the chemical symbol for the element that makes up most of the air we breathe?

- A) O
- B) H
- C) N**
- D) C

2. Which of these is a pure substance made of only one type of atom?

- A) Water
- B) Salt
- C) Gold**
- D) Sugar

3. What common household substance is made by chemically combining sodium (Na) and chlorine (Cl)?

- A) Baking soda
- B) Vinegar
- C) Table salt**
- D) Bleach

4. When water turns into ice, what state of matter is it changing into?

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

5. What tiny particles are the basic building blocks of all matter?

- A) Molecules
- B) Atoms**
- C) Cells
- D) Grains

6. What is the name for two or more atoms joined together, like the two oxygen atoms and one hydrogen atom in a water molecule?

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

7. Which element has the chemical symbol 'O' and is essential for us to breathe?

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

8. What happens to a substance during a chemical reaction, like when wood burns?

- A) It changes shape
- B) It changes state
- C) It changes into a new substance**
- D) It gets colder

9. What is the chemical formula for water, showing it is made of two hydrogen atoms and one oxygen atom?

- A) CO₂
- B) H₂O**
- C) NaCl
- D) O₂

10. Which of the following is a liquid at room temperature?

- A) Iron
- B) Water**
- C) Glass
- D) Wood

11. What is the most common element in the Earth's crust?

- A) Iron
- B) Silicon
- C) Aluminum
- D) Oxygen**

12. When steam cools down and turns back into liquid water, what is this process called?

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

13. What is the chemical symbol for the element that is the main component of helium balloons?

- A) H
- B) O
- C) He**
- D) Ne

14. What is the name of the process where a liquid turns into a gas, like water boiling into steam?

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

15. Which of these is an example of a compound?

- A) Oxygen gas (O₂)
- B) Pure gold (Au)
- C) Carbon dioxide (CO₂)**
- D) Helium gas (He)