

Elementary Chemistry Facts

Chemistry · Practice Test · 25 Questions

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

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

2. Which of these is a type of matter made up of only one kind of atom?

- A) Compound
- B) Mixture
- C) Element
- D) Solution

3. Water is a substance made of hydrogen and oxygen. What is water called?

- A) An element
- B) A mixture
- C) A compound
- D) A molecule

4. When a liquid turns into a gas, this process is called:

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

5. Which of the following is a pure substance?

- A) Saltwater
- B) Air
- C) Sugar
- D) Fruit salad

6. What are the tiny particles that make up all matter called?

- A) Waves
- B) Atoms
- C) Magnets
- D) Glows

7. When a gas turns back into a liquid, it is called:

- A) Boiling
- B) Sublimation
- C) Condensation
- D) Melting

8. Which is an example of a mixture?

- A) Pure gold
- B) Oxygen gas
- C) Sand and water
- D) Diamond

9. What happens to most substances when they are heated?

- A) They get smaller
- B) They freeze
- C) They expand
- D) They disappear

10. Which of these is a common chemical reaction observed in everyday life?

- A) A rock rolling down a hill
- B) Water freezing into ice
- C) Baking a cake
- D) A shadow forming

11. What do we call the smallest particle of a substance that still has the properties of that substance?

- A) Atom
- B) Proton
- C) Electron
- D) Molecule

12. Which state of matter has no definite shape but has a definite volume?

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

13. When a solid turns directly into a gas without becoming a liquid first, it is called:

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

14. What are the basic building blocks of matter?

- A) Cells
- B) Atoms
- C) Minerals
- D) Stars

15. Which of the following is an example of a solution?

- A) A bowl of cereal
- B) Lemonade
- C) A pile of sand
- D) A rock

16. What is it called when a liquid turns into a solid?

- A) Evaporation
- B) Melting
- C) Freezing
- D) Boiling

17. Which element is the most common gas in the air we breathe?

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

18. When two or more elements combine chemically, they form a:

- A) Mixture
- B) Solution
- C) Compound
- D) Element

19. Which of these changes is a physical change, not a chemical change?

- A) Burning wood
- B) Rusting iron
- C) Tearing paper
- D) Cooking an egg

20. What is the name for the three main states of matter?

- A) Solid, liquid, gas
- B) Hot, cold, warm
- C) Big, medium, small
- D) Hard, soft, wet

21. Which element is essential for life and is found in all living things?

- A) Iron
- B) Carbon
- C) Gold
- D) Helium

22. What happens to the particles in a liquid when it is heated?

- A) They move slower and closer together
- B) They move faster and further apart
- C) They stop moving completely
- D) They become invisible

23. Which is a common example of a compound?

- A) Pure iron
- B) Salt (sodium chloride)
- C) Oxygen gas
- D) Helium

24. What is the process where a liquid evaporates and becomes a gas?

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

25. Which of these is a gas at room temperature?

- A) Water
- B) Ice
- C) Steam
- D) Rock