

Elementary Chemistry Facts

Chemistry · Answer Key · 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