

Chemistry for Young Explorers

Chemistry · Answer Key · 18 Questions

1. What is the chemical symbol for water?

- A) O₂
- B) H₂O**
- C) CO₂
- D) NaCl

2. Which gas do plants take in from the air for photosynthesis?

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

3. What is the hardest natural substance on Earth?

- A) Gold
- B) Iron
- C) Diamond**
- D) Salt

4. Which element makes up most of the Earth's atmosphere?

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

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

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

6. What is the process called when a liquid turns into a gas?

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

7. Which common household item is an acid?

A) Baking Soda

B) Vinegar

C) Soap

D) Sugar

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

A) Cells

B) Atoms

C) Molecules

D) Minerals

9. What is the chemical symbol for iron?

A) Ir

B) Fe

C) In

D) I

10. Which metal is often used in electrical wires because it conducts electricity well?

A) Aluminum

B) Iron

C) Copper

D) Silver

11. What is the process called when a gas turns into a liquid?

A) Evaporation

B) Boiling

C) Condensation

D) Sublimation

12. Which gas is essential for humans and animals to breathe?

A) Carbon Dioxide

B) Nitrogen

C) Oxygen

D) Methane

13. What is the chemical symbol for gold?

A) Go

B) Au

C) Ag

D) Gd

14. What is the name for a substance that speeds up a chemical reaction without being used up itself?

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

15. What is the common name for sodium chloride?

- A) Baking Soda
- B) Vinegar
- C) Sugar
- D) Table Salt**

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

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

17. What is the chemical symbol for helium?

- A) He**
- B) H
- C) El
- D) Hm

18. What type of change involves the formation of new substances?

- A) Physical Change
- B) Chemical Change**
- C) Phase Change
- D) Mechanical Change