Chemistry Wonders for Young Scientists

Chemistry · Answer Key · 25 Questions

1. What is the smallest part of an element that still acts like that element?

A) An atom
B) A molecule
C) A cell
D) A rock

2. Which metal is a liquid at room temperature?

A) Iron
B) Mercury
C) Gold
D) Copper

3. What do we call the table that lists all the known elements?

A) The Math Grid
B) The Periodic Table
C) The Shopping List
D) The Alphabet Chart

4. Which gas do plants need to take in to make their own food?

A) Oxygen
B) Nitrogen
C) Carbon dioxide
D) Helium

5. What is the chemical name for common table salt?

A) Sodium chloride
B) Sugar
C) Calcium
D) Water

6. What is water made of when you break it down into elements?

A) Gold and Silver
B) Hydrogen and Oxygen
C) Iron and Carbon
D) Dirt and Air

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7. Which gas makes up most of the air we breathe?

A) Oxygen
B) Helium
C) Nitrogen
D) Neon

8. What state of matter is a diamond?

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

9. What is the center of an atom called?

A) The Nucleus
B) The Shell
C) The Outer Layer
D) The Button

10. Which element is used to make the inside of a pencil (graphite)?

A) Lead
B) Carbon
C) Iron
D) Silver

11. When ice melts into water, what is this change called?

A) Freezing
B) Burning
C) Phase change
D) Cooking

12. What color does litmus paper turn when it touches a strong acid?

A) Blue
B) Green
C) Red
D) Yellow

13. Which element is the lightest in the entire universe?

A) Oxygen
B) Hydrogen
C) Gold
D) Lead

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14. What do we call a mixture where one substance dissolves into another?

A) A solution
B) A solid
C) A rock
D) A gas

15. What is the scientific name for the process of plants using sunlight to create energy?

A) Breathing
B) Photosynthesis
C) Sleeping
D) Eating

16. Which gas do humans breathe out as a waste product?

A) Oxygen
B) Carbon dioxide
C) Hydrogen
D) Argon

17. What is the chemical symbol for Oxygen?

A) O
B) Ox
C) H
D) Au

18. Which material is an example of a natural polymer?

A) Plastic
B) Rubber
C) Glass
D) Steel

19. What is the main substance that makes up the Earth's atmosphere?

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

20. At what temperature does pure water freeze at sea level?

A) 0 degrees Celsius
B) 50 degrees Celsius
C) 100 degrees Celsius
D) 20 degrees Celsius

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21. What is formed when two or more atoms bond together?

A) A molecule
B) A proton
C) A neutron
D) A light

22. Which of these is a noble gas that makes signs glow?

A) Oxygen
B) Neon
C) Carbon
D) Iron

23. What is the chemical name for the gas inside a balloon that makes it float?

A) Oxygen
B) Helium
C) Nitrogen
D) Carbon dioxide

24. What is the process of a liquid turning into a gas called?

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

25. What is a substance called that cannot be broken down into simpler substances?

A) An element
B) A compound
C) A mixture
D) A rock

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