

Young Scientist's Chemistry Quest

Chemistry · Answer Key · 12 Questions

1. What is the name of the gas that humans need to breathe in to survive?

A) Carbon dioxide

B) Oxygen

C) Helium

D) Nitrogen

2. Which state of matter has a definite shape and does not flow like water?

A) Liquid

B) Gas

C) Solid

D) Plasma

3. What happens when you mix baking soda and vinegar together?

A) They turn into gold

B) They create bubbles and gas

C) Nothing happens

D) They turn into a solid rock

4. Which metal is a liquid at room temperature?

A) Iron

B) Gold

C) Mercury

D) Copper

5. What is the most common element found in the entire universe?

A) Hydrogen

B) Oxygen

C) Iron

D) Carbon

6. When water gets very cold and turns into ice, what is this change called?

A) Evaporation

B) Freezing

C) Melting

D) Condensation

7. What do we call a material that is made of only one type of atom?

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

8. Which of these is a natural acid found in lemons?

- A) Citric acid**
- B) Sulfuric acid
- C) Baking soda
- D) Salt

9. What is the chemical symbol for the element Gold?

- A) Ag
- B) Fe
- C) Au**
- D) Gd

10. Which gas do plants absorb from the air to help them grow?

- A) Oxygen
- B) Carbon dioxide**
- C) Helium
- D) Argon

11. What happens to water when it is heated to 100 degrees Celsius?

- A) It freezes
- B) It turns into steam**
- C) It turns into a solid
- D) It disappears

12. What is the main chemical that makes up a diamond?

- A) Iron
- B) Gold
- C) Carbon**
- D) Silver