

Chemical Properties of Materials Quiz

Science · Answer Key · 20 Questions

1. Which material is flammable?

- A) Glass
- B) Water
- C) Paper**
- D) Metal

2. What does flammable mean?

- A) Can easily catch fire.**
- B) Dissolves in water.
- C) Changes color easily.
- D) Cannot be burned.

3. Which material is NOT flammable?

- A) Dry leaves
- B) Plastic bag
- C) Glass bottle**
- D) Cardboard

4. Which of the following should be kept away from fire because it is flammable?

- A) Water
- B) Sand
- C) Cooking oil**
- D) Ceramic plate

5. Why should we handle flammable materials carefully?

- A) They can cause fire accidents.**
- B) They are always heavy.
- C) They cannot be recycled.
- D) They easily dissolve in water.

6. Which material can easily burn when exposed to fire?

- A) Cloth**
- B) Stone
- C) Steel spoon
- D) Glass

7. Which is the safest action when using flammable materials?

- A) Play with matches.
- B) Keep them near candles.
- C) Store them away from heat.**
- D) Burn them outdoors for fun.

8. What does reactivity mean?

- A) The ability to melt.
- B) The ability to shine.
- C) The ability of a material to change when mixed with another substance.**
- D) The ability to float.

9. Which material reacts with vinegar and produces bubbles?

- A) Baking soda**
- B) Plastic
- C) Wood
- D) Glass

10. What happens when baking soda is mixed with vinegar?

- A) It freezes.
- B) It produces bubbles or gas.**
- C) Nothing happens.
- D) It melts.

11. Which material is least likely to react with water?

- A) Plastic ruler**
- B) Iron nail
- C) Baking soda
- D) Vinegar

12. Which of the following shows a chemical reaction?

- A) Ice melting
- B) Water boiling
- C) Vinegar mixed with baking soda**
- D) Paper folding

13. Rust forms when iron reacts with

- A) Air and moisture**
- B) Sand
- C) Plastic
- D) Sugar

14. Which material is most likely to rust?

- A) Wooden chair
- B) Iron nail**
- C) Glass cup
- D) Plastic bottle

15. What does degradable mean?

- A) It becomes metal.
- B) Can be broken down naturally over time.**
- C) Cannot be used again.
- D) Can easily catch fire.

16. Which material is biodegradable?

- A) Plastic straw
- B) Glass bottle
- C) Banana peel**
- D) Aluminum can

17. Which material takes the longest time to decompose?

- A) Leaves
- B) Paper
- C) Plastic bottle**
- D) Fruit peel

18. Why is it important to use biodegradable materials?

- A) They reduce pollution.**
- B) They are made of metal.
- C) They burn easily.
- D) They are always heavy.

19. Which of the following is NOT biodegradable?

- A) Vegetable scraps
- B) Paper bag
- C) Plastic spoon**
- D) Dry leaves

20. Which practice helps protect the environment?

- A) Throw plastic anywhere.
- B) Burn all the garbage.
- C) Segregate biodegradable and non-biodegradable waste.**
- D) Leave trash in rivers.