

PHYSICAL VS. CHEMICAL CHANGES

Name KEY

In a physical change, the original substance still exists, it has only changed in form. In a chemical change, a new substance is produced. Energy changes always accompany chemical changes.

Classify the following as being a physical or chemical change.

1. Sodium hydroxide dissolves in water. PHYSICAL
2. Hydrochloric acid reacts with potassium hydroxide to produce a salt, water and heat. CHEMICAL *new products*
3. A pellet of sodium is sliced in two. PHYSICAL
4. Water is heated and changed to steam. PHYSICAL
5. Potassium chlorate decomposes to potassium chloride and oxygen gas. CHEMICAL
6. Iron rusts. CHEMICAL
7. When placed in H_2O , a sodium pellet catches on fire as hydrogen gas is liberated and sodium hydroxide forms. CHEMICAL
8. Evaporation PHYSICAL
9. Ice melting PHYSICAL
10. Milk sours. CHEMICAL
11. Sugar dissolves in water. PHYSICAL
12. Wood rotting CHEMICAL
13. Pancakes cooking on a griddle CHEMICAL
14. Grass growing in a lawn CHEMICAL
15. A tire is inflated with air. PHYSICAL
16. Food is digested in the stomach. CHEMICAL
17. Water is absorbed by a paper towel. PHYSICAL