

PHYSICAL AND CHEMICAL PROPERTIES AND CHANGES

Name _____

PHYSICAL PROPERTY

1. observed with senses
2. determined without destroying matter

CHEMICAL PROPERTY

1. indicates how a substance reacts with something else
2. matter will be changed into a new substance after the reaction

Identify the following as a chemical (C) or physical property (P):

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| <ul style="list-style-type: none"> _____ 1. blue color _____ 2. density _____ 3. flammability (burns) _____ 4. solubility (dissolves) _____ 5. reacts with acid _____ 6. supports combustion _____ 7. sour taste | <ul style="list-style-type: none"> _____ 8. melting point _____ 9. reacts with water _____ 10. hardness _____ 11. boiling point _____ 12. luster _____ 13. odor _____ 14. reacts with air |
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PHYSICAL CHANGE

1. a change in size, shape, or state
2. no new substance is formed

CHEMICAL CHANGE

1. a change in the physical and chemical properties
2. a new substance is formed

Identify the following as physical (P) or chemical (C) changes.

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|--|---|
| <ul style="list-style-type: none"> _____ 1. NaCl (Table Salt) dissolves in water. _____ 2. Ag (Silver) tarnishes. _____ 3. An apple is cut. _____ 4. Heat changes H₂O to steam. _____ 5. Baking soda reacts to vinegar. _____ 6. Fe (Iron) rusts. _____ 7. Alcohol evaporates . _____ 8. Ice melts. | <ul style="list-style-type: none"> _____ 9. Milk sours. _____ 10. Sugar dissolves in water. _____ 11. Wood rots. _____ 12. Pancakes cook. _____ 13. Grass grows. _____ 14. A tire is inflated. _____ 15. Food is digested. _____ 16. Paper towel absorbs water. |
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Physical and Chemical Changes

Part A

Can you recognize the chemical and physical changes that happen all around us? If you change the way something looks, but haven't made a new substance, a **physical change** (P) has occurred. If the substance has been changed into another substance, a **chemical change** (C) has occurred.

1.		An ice cube is placed in the sun. Later there is a puddle of water. Later still the puddle is gone.
2.		Two chemicals are mixed together and a gas is produced.
3.		A bicycle changes color as it rusts.
4.		A solid is crushed to a powder.
5.		Two substances are mixed and light is produced.
6.		A piece of ice melts and reacts with sodium.
7.		Mixing salt and pepper.
8.		Chocolate syrup is dissolved in milk.
9.		A marshmallow is toasted over a campfire.
10.		A marshmallow is cut in half.