



Name: _____ Class: _____

Physical or chemical change

The following are either physical or chemical changes. Write 'P' for physical changes and 'C' for chemical changes.

1. Butter melting. _____
2. A glass cracking when heated. _____
3. Water exposed to extreme cold becomes ice. _____
4. Melting a lead bar. _____
5. Burning sugar for caramel. _____
6. Dissolving sugar in water. _____
7. Tearing a piece of paper. _____
8. Slicing cheese. _____
9. Condensation of water vapor. _____
10. A metal spoon rusting. _____
12. Frying fish. _____
13. Baking a cake _____
14. Acid rain dissolving paint off a wall. _____
15. Some acid is added to a salt and a gas is produced. _____

Determine if the following processes are physical or chemical changes.

a. boil -
b. combustion -
c. condense -
d. corrode -
e. crumple -
f. ferment - chemical

g. melt -
h. rust -
i. crush -
j. freeze -
k. oxidize -
l. tarnish -

m. explode -
n. grind -
o. rot -
p. vaporize -
q. photosynthesis -
r. sublimation -

What is a chemical change ?

What is a physical change ?

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- | | |
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| 1. Butter melting. | P |
| 2. A glass cracking when heated. | P |
| 3. Water exposed to extreme cold becomes ice. | P |
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| 5. Burning sugar for caramel. | C |
| 6. Dissolving sugar in water. | P |
| 7. Tearing a piece of paper. | P |
| 8. Slicing cheese. | P |
| 9. Condensation of water vapor. | P |
| 10. A metal spoon rusting. | C |
| 12. Frying fish. | C |
| 13. Baking a cake | C |
| 14. Acid rain dissolving paint off a wall. | C |
| 15. Some acid is added to a salt and a gas is produced. | C |

Determine if the following processes are physical or chemical changes.

- | | | |
|--------------------------|-----------------------|------------------------------|
| a. boil - physical | g. melt - physical | m. explode - chemical |
| b. combustion - chemical | h. rust - chemical | n. grind - physical |
| c. condense - physical | i. crush - physical | o. rot - chemical |
| d. corrode - chemical | j. freeze - physical | p. vaporize - physical |
| e. crumple - physical | k. oxidize - chemical | q. photosynthesis - chemical |
| f. ferment - chemical | l. tarnish - chemical | r. sublimation - physical |

What is a chemical change ? It is any change that leads to the formation of new chemical substances.

What is a physical change ? This is a change that affects the form of a chemical substance but not its chemical composition.