



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

What is a chemical change ?

What is a physical change ?

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2. A glass cracking when heated. \_\_\_\_\_ **P**
3. Water exposed to extreme cold becomes ice. \_\_\_\_\_ **P**
4. Melting a lead bar. \_\_\_\_\_ **P**
5. Burning suger 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.