## CHEMICAL VS. PHYSICAL CHANGE

| Name   |  |  |
|--------|--|--|
| MOLLIC |  |  |

In a physical change, the original substance still exists, It has only changed in form. Energy changes usually do not accompany physical changes, except in phase changes and when substances dissolve.

In a chemical change, a new substance is produced. Energy changes always accompany chemical changes. Physical changes usually accompany chemical changes.

Classify the following as being either a chemical or a physical change.

| 1.  | Sodium chioride dissolves in water.   |
|-----|---|
| 2.  | Hydrochloric acid reacts with sodium hydroxide to produce a salt, water and heat. |
| 3.  | A pellet of sodium is sliced in half.   |
| 4.  | Water is heated and changed to steam.   |
| 5.  | Food is digested.   |
| 6.  | Starch molecules are formed from smaller glucose molecules.                       |
| 7.  | Ice melts.  |
| 8.  | Plant leaves lose water through evaporation.                                      |
| 9.  | A red blood cell placed in distilled water will swell and burst.                  |
| 10. | The energy in food molecules is transferred into                                  |
| 11. | The roots of a plant absorb water.  |
| 2.  | Iron rusts.   |
| 13. | Oxygen is incorporated into hemoglobin to bring it to the cells.                  |
| 4.  | A person gets cooler by perspiring.   |
| 5.  | Proteins are made from amino acids.   |
| 6.  | A match burns.  |
| 7.  | A toothpick is broken in half.  |