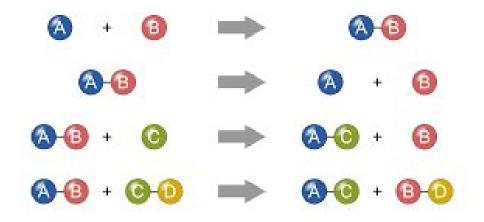
## **Chemical Reactions**

Topic 7

## **Reactions**

- Chemical reactions have two or more substances undergo going a reorganization of atoms
- These reactions always form a new substance
- The reactants turn into a new set of products



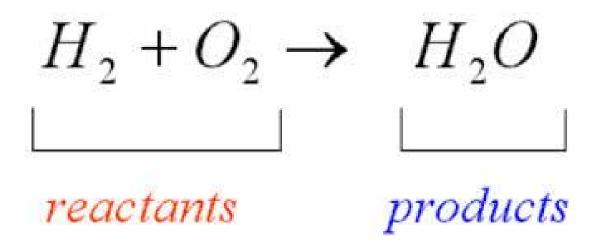
## **Chemical Equations**

Ex.

Silver + Bromine i Silver bromide

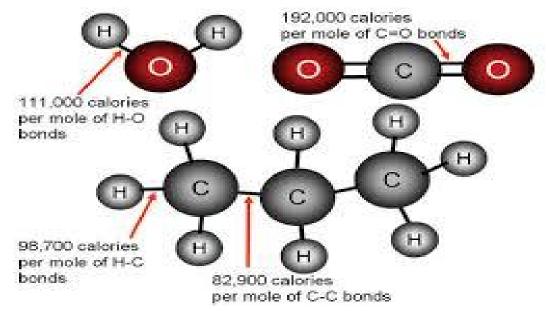
OR

 $Ag + Br \implies AgBr$ 



## **Breaking Chemical Bonds**

- When chemical reactions occur, there is a change in energy
- Chemical bonds store energy
- When these bonds break, they release energy





- If energy is released during a reaction, it is exothermic
- If energy is taken in during a reaction, it is endothermic



In an exothermic reaction, energy is released into the surroundings as heat. As a result, the temperature of the surroundings increases.



In an endothermic reaction, energy is absorbed from the surroundings. As a result, the temperature of the surroundings drops.



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