

**Target 2: I can explain what happens to atoms when a chemical reactions occurs.**

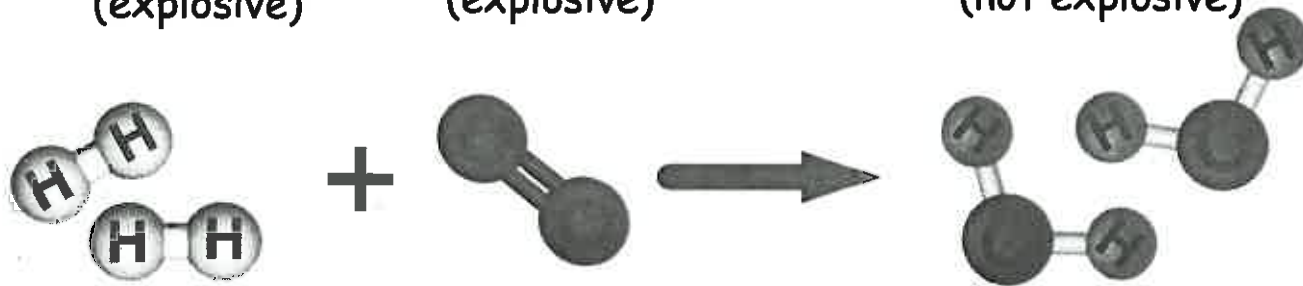
- During a chemical reaction, the atoms that make up the original substances are rearranged to form new substances. These new substances have different properties from the original substances.



Hydrogen Gas  
(explosive)

Oxygen Gas  
(explosive)

Water  
(not explosive)



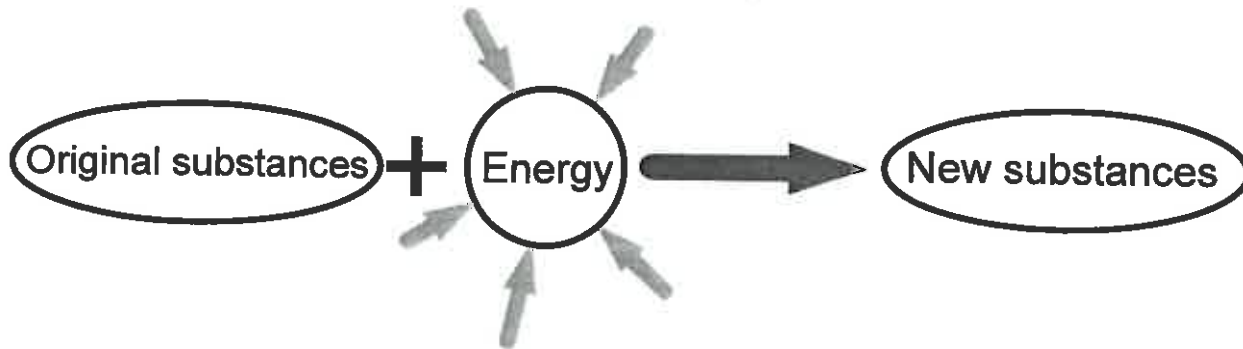
Reminder:

4 Types of evidence of a chemical change

1. Energy is released (light, heat)
2. gas bubbles are formed
3. A new solid substance is formed  
(precipitate)
4. Color change (with new substance)

Target 4: I can determine whether a chemical reaction is exothermic or endothermic.

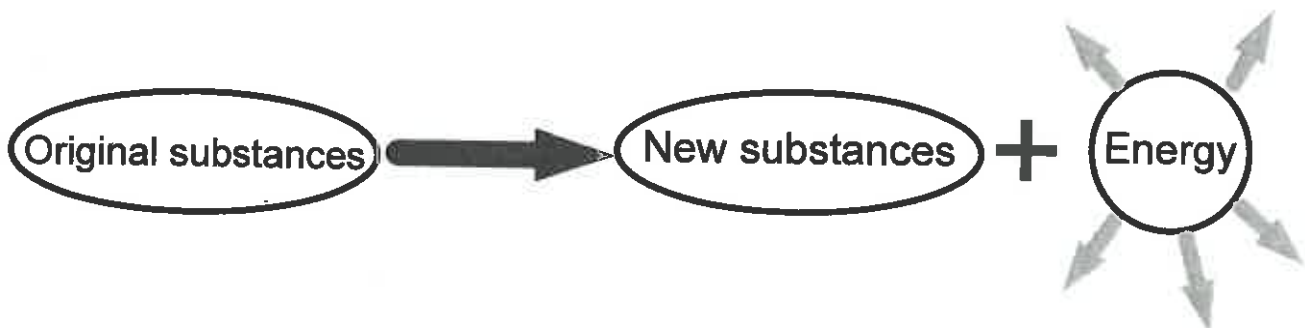
Endothermic reaction: a chemical reaction that absorbs energy



**examples include:** Photosynthesis, coldpacks, alka-selzer dissolving in water.

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Exothermic reaction: a chemical reaction that releases energy



**Examples include:** Burning anything, fireworks, food digestion