

**Energy is the  
ability to move  
or change  
matter.**

Sep 13 - 2:15 PM

**Forms of  
energy:**

**Light**

**Heat**

**Chemical**

**Mechanical**

**Electrical**

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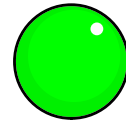
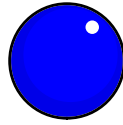
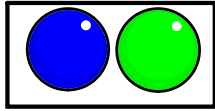
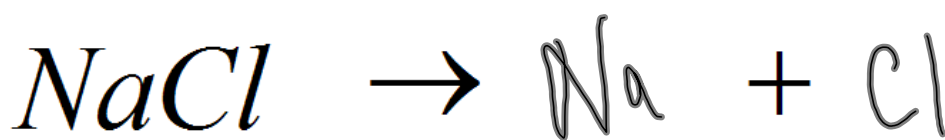


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## Chemical Reaction

Reactants  $\longrightarrow$  Products

Sep 13 - 2:38 PM



Sep 13 - 2:38 PM

**Chemical reactions  
absorb or release energy**

**video 1**  
**video 2**

Open with Video Player. In  
folder with chapter 2

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**Metabolism-**  
**all of the**  
**chemical**  
**reactions in an**  
**organism**

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**Activation Energy-**  
**energy needed to start a**  
**chemical reaction**

**Examples:**

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**Video**

Sep 13 - 3:19 PM

**Enzymes- substances that increase the speed of chemical reactions.**

**Substrate- a substance on which an enzyme acts during a chemical reaction**

**Active site- pockets on enzymes**

Sep 13 - 3:10 PM