

Endothermic vs. Exothermic Changes

Endothermic—more energy is absorbed by the system than is released

Exothermic—more energy is released by the system than is absorbed

Changes can be physical or chemical.  $H_2O \rightarrow H_2 + O_2$

Physical Changes—nothing new is made  $H_2O(l) \rightarrow H_2O(g)$

- trauma e.g. tearing, crushing
- dissolving = dissolution salt + water = salt water  
 $Na^+ Cl^-$
- phase change = change of state

Exothermic ~~changes~~ (to be memorized!)

- combustion
- fermentation (sugars to alcohol)
- digestion
- composting

A dissolving in water  
B dissolving in water  
 AB neutralization

PHYSICAL A B WATER