

Classifying Reactions : Notes/W.S.-150

Chemical reactions may be classified as exothermic or endothermic.

Exothermic reactions release energy. Burning is an example of an exothermic reaction. Burning releases energy.

Endothermic reactions absorb energy. Photosynthesis is an example of an endothermic reaction. Light energy is absorbed by the leaves of green plants so that the plant can make sugar.

Classify these reactions.

- 1) $2\text{Na} + \text{Cl}_2 \rightarrow 2\text{NaCl} + \text{heat}$
- 2) $2\text{HgO} + \text{energy} \rightarrow 2\text{Hg} + \text{O}_2$
- 3) $\text{N}_2 + \text{O}_2 + \text{energy} \rightarrow 2\text{NO}$
- 4) $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O} + \text{heat}$
- 5) cooking an egg
- 6) burning gasoline

Answers: 1) ex, 2) end, 3) end, 4) ex, 5) end, 6) ex.