

Unit 1 Lesson 4 – Study Guide

Name: _____

Energy in Chemical Reactions

Key Ideas to Know

- Breaking bonds requires energy; forming bonds releases energy.
- Energy Transfer happens whenever matter changes (ex: heat, light).
- Chemical Potential Energy = energy stored in bonds.
- Endothermic reactions absorb energy (cold packs, baking soda + citric acid).
- Exothermic reactions release energy (hot packs, baking soda + calcium chloride).
- Thermal Energy is particle motion (more motion = more heat).
- Law of Conservation of Energy: energy cannot be created or destroyed, only transferred or transformed.
- Photosynthesis: plants use sunlight (photons) to make glucose.
- Glucose: sugar that stores energy for living things.
- Starch: stored glucose in plants (ex: potatoes).
- Cellular Respiration: cells break down glucose to release energy.

Mcgraw Hill Chemical Reactions Study Guide

CL Gary



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