

Name \_\_\_\_\_

## Exothermic Vs. Endothermic Reactions

### Short Answer Key

1. One example of an everyday application of an exothermic reaction is the combustion of natural gas in a furnace, which provides heat to warm our homes during cold weather.
2. In exothermic reactions, substances pass the "hot potato" of energy to their surroundings, making the environment warmer. In endothermic reactions, substances take the "hot potato" from their surroundings, making the environment cooler.
3. Digestion is a biological process that involves both exothermic reactions (breaking down nutrients for energy) and endothermic reactions (regulating body temperature).
4. In an exothermic reaction, the surroundings feel warmer, while in an endothermic reaction, the surroundings feel cooler.
5. An endothermic reaction can be useful in creating instant cold packs used to relieve pain or reduce swelling by absorbing heat when activated.

