

Endothermic & Exothermic Reactions

Re-Energy
Worksheet
Grade Level 7-12



Introduction

In this activity, we are going to test our knowledge on endothermic and exothermic reactions. In the Thermal Energy Storage backgrounder, we learned that endothermic reactions are characterized by the consumption of heat and exothermic reactions are characterized by the production of heat. What does this mean? Write out the definitions of endothermic and exothermic reactions, below:

Endothermic:

Exothermic:

Now that you have the definitions for the two reactions, we are going to see if you can identify the types of reaction in an experiment.

Caution: This experiment uses hydrogen peroxide. Avoid contact with eyes and skin. Wear the appropriate protective gear (gloves and safety glasses). If the chemical comes into contact with your skin, wash thoroughly with water.

Before starting the experiment, find the Material Safety Data Sheet (MSDS) for 6% Hydrogen Peroxide to familiarize yourself with the safety precautions. Write out the handling and storage measures, and the physical properties of the chemical.

Chemical (Name and Formula):

Appearance, Odor, Solubility, Stability, etc.:

Handling:

Storage:
