Hot and Cold

Summary
Students study the energy associated with physical and chemical changes. The activity consists of observing nine phenomena.

Main Core Tie
Science - Chemistry
Standard 4 Objective 2

Time Frame
1 class periods of 90 minutes each

Group Size
Pairs

Materials
- student instructions/worksheet
  (attached)
  per group:
  acetone in dropper bottles
  alcohol in dropper bottles
  concentrated sulfuric acid in dropper bottles
  6 M HCl in dropper bottles
  6 M NaOH in dropper bottles spatula of NaOH
  2 spatula of NH4Cl
  spatula of Ba(OH)2
  spatula of CaCO3
  spatula of anhydrous CuSO4

Instructional Procedures
Step-by-step instructions and procedures are found on the student instruction sheet attached.

Bibliography
Lesson Design by Jordan School District Teachers and Staff.

Authors
Utah LessonPlans