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
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