

7.0 Props to be used for Thermodynamics

Subjects: Heat capacity, heat transfer, phase changes, delta H, internal energy, endothermic vs exothermic, work, calorimetry...

Description: A number of items used to demonstrate principles of introductory thermodynamics

Materials:

A: 250 ml beaker and 1000 ml beaker (fill with water)

Chunk of copper

600 ml beaker (fill with water)

burner*, stand* matches

chunk of iron

500 ml beaker (fill with ice)

B: Salt

600ml beaker

parafilm

thermos,

bunsen burner

rubber band

C: thermos

Balloon

Bomb calorimeter with container

600 ml beaker

parafilm

coffee cup calorimeter

Cheerios

*Shared items. Burners are located in the top drawer opposite the shelves. The bomb calorimeter is located on top of the flammables storage cabinet.

Discussion: None

Safety: None

Disposal: None

References:

1. Prof. Botch