Name: Samantha Norris Date:april 31 2020

Student Exploration: Calorimetry Lab

Vocabulary: calorie, calorimeter, joule, specific heat capacity

Gizmo Warm-up

A calorimeter is an insulated container filled with a liquid, usually water. When a hot object is placed in the calorimeter, heat energy is transferred from the object to the water and the water heats up.

Calorimeters can be used to find a substance's **specific heat** capacity. You will use the *Calorimetry Lab* Gizmo to determine the specific heat capacities of various substances.



- On the SIMULATION pane, select Copper. Use the slider to set its Mass to 200 g. Set the Water mass to 200 g. Check that the Water temp is set to 30.0 °C and the copper's Temp is 90 °C. Select the GRAPH tab, and click Play ().
 - A. What was the Final temperature of the copper and the water? 34.96
 - B. How much did the temperature of the copper change? 55.04
 - C. How much did the temperature of the water change? 4.96
- Specific heat capacity can be described as a substance's resistance to temperature changes. Which substance has a greater specific heat capacity, copper or water? Explain.

Water has a greater specific heat because water resists temperature better than copper.

Answer Sheet For Calorimetry Lab

Sebastian Brünink

Answer Sheet For Calorimetry Lab:

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