**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Partner: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Molar Heat of Neutralization of Sulfuric Acid with Sodium Hydroxide**

**Purpose:**

* to determine the heat of heat of neutralization per mole of sulfuric acid

**Materials:**

|  |  |
| --- | --- |
| Coffee cup calorimeter | Thermometer |
| RT water | Graduated cylinders |
| Pipet | Sulfuric acid |
| Sodium hydroxide solution |  |

**Procedure:** Labeled Sketch

**BCE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Observations:**

**Calculations:**

**Conclusion:**

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**Question:**

What would happen if the volume of the sulfuric acid and sodium hydroxide solutions were both increased the same amount? Think **in terms of the formula for ∆H**. Math and English!

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