

Name \_\_\_\_\_ Date \_\_\_\_\_

### Calorimetry Data Table and Calculations

Test Food name: \_\_\_\_\_

Mass of Sample (g)

Temperature of water (° C)

Before burning \_\_\_\_\_

Initial temp. \_\_\_\_\_

After burning \_\_\_\_\_

Final temp. \_\_\_\_\_

Change in mass \_\_\_\_\_

Change in temp. \_\_\_\_\_

#### CALCULATIONS:

1. Use the following formula to determine the number of calories in the food sample:  
*Omit units of measure as this formula has been modified for easier use.*

$$\begin{array}{l} \# \text{ Calories} \\ \text{of food sample} \end{array} = \text{mass of water} \times \text{change in water temp.} \div 1000$$

**Hint: 1 mL of water = 1 g (Therefore, 15.0 mL of water should be 15.0 g)**

**Energy given off by sample = \_\_\_\_\_ Calories**

2. Calculate the Calories per gram of the food sample.

$$\text{Calories/g} = \text{Calculate Calories} \div \text{change in mass of food sample}$$

**Calories/gram of the food sample = \_\_\_\_\_**