Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group Members \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Molar Relationships: What are the Identities of the Unknown Compounds? – 35 points**

LAB INVESTIGATION REPORTING SHEET – YOU MAY USE EXTRA PAPER IF NECESSARY.

**Guiding Question: WHAT ARE THE IDENTITIES OF THE TWO UNKNOWN COMPOUNDS?**

Getting Started:

* Task One: What type of data do you need to collect? Hint: Think about the type of measurement you will need to make. Please come up with at least two pieces of data you will need to answer the guiding question. (2pts, 1 for each piece of data)
* Task Two: List specific steps for how you plan to collect the data. Hints: What type of equipment will be used to reduce error and how will you keep track of this data? (2pts for listing equipment and designing a method for tracking data)
* Task Three: How will you analyze the data? Hints: What type of table or graph could you make to help organize and make sense of the data? What calculations will you need to make. (2 pts for planning how you will organize and use the data in calculations)

In the space provided below, create your data table. (5pts for a title, headings, units, proper sig figs)

Neatly work out the calculations for your unknown (If you need more space, use a separate piece of paper and attach it to this document): (10 pts total- 5 pts each –eqn, subs, units, and sig figs)

Argument Presentation for Unknown \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (1 pt – unknown bag listed)

The Guiding Question: (1 pt)

Our Claim – What is our answer to the guiding question for our unknown?: (2 pt – stated, correct)

Our Evidence: How did you interpret your data to find meaning for the Guiding Question? (3pt)

Our Reasoning: (5pts – Please be sure to use scientific concepts and principles you learned in this unit of study that shows why the evidence you used is relevant and important to link your claim and evidence.)

Group Discussion and Revision Recommendations: (2pts – change based on group discussion, method that works better)