Group Name:	

Experiment 5: Calorimetry Design Proposal

LibreTexts page: 5: Calorimetry

(https://chem.libretexts.org/link?214682)

This worksheet is to be used for the Experiment 5: Calorimetry in the class LibreText. Each group will create a proposal to determine the calorimetry constant.
At 11:30 AM the breakout groups will adjourn and each group will present their proposal to the class.

Supplies

- 100ml Graduated cylinder (TC)
- Plastic funnel
- Calorimeter
- Two thermometers
- Hot and cold water

Experimental Design Parameters you need to account for in your proposal

- Surrounding conditions
- Temperature of the water
- Spills
- Accuracy of the graph

Role	Name
Manager	
Theoretician	
Engineer	
Analyst	
Spokesperson	

1. **Introduction & Overview**
    - Team works, Theoretician is the scribe, but everyone should contribute
    - Write 2-3 sentences for this section and describe what calorimeter constant is and why you need to use it in your calculations.

2. **Experimental Design**
    - Team works, Engineer is the scribe, but everyone can contribute
    - Show how you are going to obtain your data
    - Show how you are going to minimize the potential errors

3. **Error analysis of the design proposal**
    - Team works, Analyst is the scribe

- Explain how each of the errors that you discussed in part 2 would affect your results and conclusions. This **must state** how the error will cause you to overestimate or underestimate the calorimetry constant.

4. **Safety evaluation**
    - Team works, Manager is the scribe
    - Define protocols that ensure that this experiment will be performed in a safe and prudent manner.

5. **Presentation**
    - Team works, Spokesperson is the scribe
    - Prepare a brief 3 minute presentation of your proposal.
