**Directions**:

A. All lab groups must submit one copy of the problem statement, IV, DV, control, constants, hypothesis, materials, procedure and data table.

B. Each student individually submits a graph showing the average results of all data trials and the answers to the questions below.

**Polymer Lab- Conclusion and Error Analysis**

1. What is the Problem that your group was trying to solve? Explain your answer fully. Include the IV, DV and a problem statement.

2. What was your original hypothesis statement? Provide appropriate reasoning as to why this hypothesis was chosen.

3. Identify the control experiment and provide reasoning as to why this control was chosen.

4. Based upon your data, do you accept or reject your hypothesis? Why or why not? Be sure to use specific examples from your data table to support your statements.

5. What specific steps did your group take to minimize experimental error? Mention how variables were controlled in your experiment.

6. What possible errors could have affected your results? Include errors in measurement, design and/or random errors. (Do not include human blunders or carelessness.) Also include how you would solve these errors.

7. Was this a valid experiment? Why or why not? (Factors to consider: Did you use a control/conduct multiple trials? Did your results vary from trial to trial? Were there very large erors?)

8. What are 2 changes to this procedure that you can make in order to obtain more reliable data for your experiment? In other words, what are 2 ways to increase the validity of this procedure?