

I. **Scenario:** A large department store chain is trying to improve its public image by going “green”. As part of an attempt to leave a smaller carbon footprint, the company is considering using shopping bags manufactured with recycled polyethylene. However, the management is concerned about the quality of the bags and has requested the service of a scientific team to compare the strength of the “recycle bags” with those that have no recycled material in them. Your group will test the tensile strength and strain of a shopping bag made with recycled material and a shopping bag made without recycled material and present your findings to the class.

II. **Presentation Rubric** The results of your group’s experiment will be graded on a presentation based on the following:

- 1. Hypothesis ____/5 pts
- 2. Materials..... ____/5 pts
- 3. Procedure: Numbered steps taken to complete the experiment.
Written in enough detail for the experiment to be done by another group..... ____/20 pts
- 4. Data Table..... ____/20 pts
- 5. Graph(s) Tensile Stress vs. Strain..... ____/30 pts
- 6. Conclusion : Did the experiment support the team’s hypothesis?..... ____/10 pts
- 7. All members contributed..... ____/10 pts

- Total..... ____/100 pts