

SCHOOL/TEAM NAME: _____

STUDENT NAMES: _____

Experimental Design Sample Test

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UniMed, a pharmaceutical company, wishes to use new and innovative methods in testing products for various measurements, such as volume or weight. Although the common scale is currently in use at UniMed, it requires parts that are not so easily calibrated. UniMed would like to invest in measurement tools that are less complicated and preferably original. Consider effective methods of measuring objects using the materials provided below.

Task: You must design an experiment using at least two (2) of the materials provided.

Materials provided: 1 small beaker, 1 large beaker, 1 graduated cylinder, 1 cup of vinegar, 3 tablespoons of baking soda, 1 balloon, 3 rubber bands, tape, paper towels, table.

Rubric: Your write-up must contain the following parts:

1. Statement of Problem (2)
2. Hypothesis (4)
3. Variables (10)
4. Experimental Control (2)
5. Materials (3)
6. Procedure: including diagrams (6)
7. Qualitative results and observations (4)
8. Quantitative Data Table (6)
9. Graph (6)
10. Statistics (2)
11. Analysis and interpretation of data (4)
12. Possible experimental errors (3)
13. Conclusion (4)
14. Applications and Recommendations for Further Use (4)