

The Effect of Submersion Time on Absorption

Rubric

- The title of the experiment must be entered in the top margin of the first page for this experiment and entered in the table of contents of your lab book.
- **Your conclusion & lab questions must be included in your lab book.**

The data table must be done in ink

Otherwise, 10 points will be deducted from your score for each missing item.

1. **Data table must have (5 points each. 20 points total):**
 - a) Column headers are labeled.
 - b) Column headers have units indicated in parenthesis
 - c) Mean distance is calculated
 - d) Mean speed is calculated
 - e) Numbers are neatly 'lined up'
2. Answer lab questions after the conclusion. (5 points each, 15 points)

Write the Hypothesis in this form (5 points):

If the _____ is _____
(independent variable) (explain how the independent. variable is changed)

then the _____ will _____.
(dependent variable) (explain how the dep. variable will change)

3. Graph must contain the following (5 points each, 30 points)
 - a. x axis is labeled with the name of the IV found in the data table.
 - b. y axis is labeled with the name of the **DV** found in the data table.
 - c. Title: The effect of _____ (the IV) _____ on _____ (the DV) _____.
 - d. Scale the axes (numbers)
 - e. Plot the points
 - f. Draw a best fit line (trend line)
4. Conclusion, (6 POINTS EACH, 30 point)
 - a. Restate the objective
 - b. Describe the lab
 - c. Restate the results (effect of time on absorption, mean speed)**
 - d. Explain the findings
 - e. Report errors & discuss how errors could have been prevented.