Conclusions Worksheet

Reflect on your experiment. Complete the chart below.

<table>
<thead>
<tr>
<th>Same (controlled)</th>
<th>Different/tested (independent)</th>
<th>Result (dependent)</th>
<th>Other (couldn’t control)</th>
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Answer the Following Questions: Use the completed chart above.

1. What is/are the independent/experimental variable/s?

2. What are the controlled variables?

3. What is/are the dependent variable/s?
Conclusions Worksheet

Conclusions: For your conclusions you will write at least 3 paragraphs (5-7 sentences each).

But before you write your conclusion, answer these questions on a separate sheet of paper!

**Paragraph #1:**

Was this a fair test? Discuss variables that could influence results.

1. Make a list of all the variables that can influence the results. Include the variables from your chart above (remember to add any you discovered while conducting the experiment!).
2. Were all of your measurements/times/amounts the same? Which ones were the same? Which ones were different?
3. Discuss the dependent, independent, and controlled variables.
4. Was your procedure clear and detailed enough? Would you expect the same results if a high school science class in California repeated your experiment? Why?

**Paragraph #2:**

Was your hypothesis correct?

1. Restate your hypothesis. Was your hypothesis correct? If so, then why (refer to paragraph #1 and your experimental design and how it was carried out)? If not, then why not?
2. If not, formulate (write) a "null hypothesis" and an "alternative hypotheses" about one of the variables identified by the group. For example: A null hypothesis could be "bounty did not soak up more water than the other brands," and the alternative hypothesis could be as follows: "Viva proved to be more absorbent than the other brands because it soaked up more water."
3. Give a scientific reason for your results. Why did you get the results you got? Why did the Viva soak up more water?

**Paragraph #3:**

1. How could you improve this experiment?
2. What could you do to make sure that all elements of the experiment would be controlled?