**Title** /1 **Name, Partners, Block, Date**

**Question:** /1

* Testable and *SPECIFIC.* Gives reader clear idea what you want to test.

**Hypothesis:** /1

* Your prediction written in form of: " If...(IV).....Then..(DV)....because" statement.

**Variables:** /4

* **Independent Variable -** something you change on purpose
* **Dependent Variable** - something that depends on or is affected by the independent variable
* **Control Variable** – What stays the same. At least 3.

**Materials:** In *point form,* list all materials and *amounts* needed to conduct experiment

**Procedures:** *Numbered,* step by step instructions on how to conduct the experiment. Include measuring and recording data.

**Observations:** /3-5

* Sometimes *Qualitative* observations are required (2pt):
* Quantitative data (measurements, times, temperatures, etc.) should be ina *data table* (1pt)**.**
* If multiple trials or objects involved, you must show an *average*  (1pt)
* Must show *units* (1pt)

Plant Height Increase over 1 week period:

|  |  |  |
| --- | --- | --- |
|  | Control | Variable |
| Trial 1 | 22 cm | 25 cm |
| Trial 2 | 23 cm | 28 cm |
| Trial 3 | 21 cm | 27 cm |
| **Average** | **22 cm** | **26.7 cm** |

**Conclusion:** In paragraph form and in COMPLETE SENTENCES (1pt) address the following:

1. Did you prove or disprove your hypothesis?
2. Give a reasonable explanation of why you got the results you did.

Ex. “The hypothesis that *…….* was proven incorrect. This may be because ....”

1. What factors or difficulties occurred that may have impacted your findings? *How* did they impact your results?

Ex. “One of the challenges we encountered was that …..”. Another problem was that …. which may have ….. “

1. What *specifically* would you change to improve your experiment? Why?

Ex “*Improvements to this experiment would be… We would also ….*

1. What did you learn from this experiment?
2. Can you apply your learnings to real life?

**Self Assessment:**

Give *yourself* a mark out of 4 (1 being poor, 4 being great) on how well you:

1. Communicated with your partners (gave and received feedback on planning)
2. Participated in the experiment (planning, set up, clean up)

Give *each partner* a mark out from 1-4 on how well they:

1. Communicated with you and the remaining partners
2. Participated in the experiment (planning, set up, clean up)

Neat, organized, in correct order