Grade 10 Science | Investigatory Project Worksheet 1

**IP Topic Proposal**

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*Empowered like Mary to lead in Service*

**Proposed Topic** Operative of Plant Growth henceforth its Distance **Topic Number \_7\_\_**

**Proposed Research Title**

The Comparative Study of the Effect of Plant Growth when the distance of the same plant that uses the concept of allelopathy are changed.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Brief Introduction/Rationale**

We will be comparing whether the distance between plants affect its growth. Looking into the concept of allelopathy, sweet potatoes are plants that release chemicals (allelochemicals) that can inhibit the growth of plants near them. So we will have different plants & see how close another plant can grow near another plant and also perceive the effects it has on each plant.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Objectives of the Study**

1. Be informed of the effects of distance plants
2. What separation amongst plants can showcase for process
3. Give out effects & factors that the distance can bring about for the plants

**Hypothesis**

There is no significant difference on the growth and appearance of the plant if the distance of it from each other is changed.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Identify the Variables in your Study**

1. *Independent Variable (IV): Distance between plants.*
2. *Dependent Variable (DV): Plant Growth, width of roots, size of plant.*
3. *Constant Variables (CV): Type of soil, amount of water, amount of sunlight, type of plant.*

*Adviser’s Comments:*

**Approved:**

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*Research Adviser*