**Student Research Project**

**Title:**

**Research Question:**

**Hypothesis:**

**Variables:**

**Methodology:**

**Expected Results:**

**Conclusion:**

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**Timeline:**

<table>
<thead>
<tr>
<th>Week</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>Choose topic and conduct background research + introduction to experiment + germinate plant seeds</td>
</tr>
<tr>
<td>Two</td>
<td>Write the materials + create the method + design of the experiment and conduct preliminary trials</td>
</tr>
<tr>
<td>Three</td>
<td>Conduct experiment and observe findings</td>
</tr>
<tr>
<td>Four</td>
<td>Check with teacher</td>
</tr>
<tr>
<td>Five</td>
<td>Write the data in the form of graphs and tables</td>
</tr>
<tr>
<td>Six</td>
<td>Complete the report</td>
</tr>
<tr>
<td>Seven</td>
<td>Write discussion and conclusion</td>
</tr>
<tr>
<td>Eight</td>
<td>Finalize report</td>
</tr>
</tbody>
</table>
To determine the effectiveness of different greenhouse materials

on the growth of wheat plants.

**Aim**

The main objective is to analyze and compare the growth performance of wheat plants cultivated under different greenhouse materials. The experiment will involve planting wheat seeds in various greenhouse conditions and monitoring their growth over a specified period. Parameters such as height, root development, and yield will be recorded to evaluate the effectiveness of each material.

**Background and Research**

The effectiveness of different greenhouse materials on the growth of wheat plants has been a subject of interest in the field of agricultural science. Various materials have been tested, including glass, plastic, and fiber glass, to determine their impact on plant growth. Studies have shown that the choice of greenhouse material significantly influences the microclimatic conditions inside the greenhouse, which in turn affects plant growth.

**Methodology**

1. **Preparation of Greenhouse Materials**
   - Glass Greenhouse
   - Plastic Greenhouse
   - Fiber Glass Greenhouse

2. **Soil Preparation**
   - Ensure the soil is well-drained and fertile.

3. **Seeding**
   - Plant wheat seeds in each greenhouse.

4. **Data Collection**
   - Measure plant height, root development, and yield periodically.

5. **Conclusion**
   - Compare the growth performance and determine the most effective material.

**Expected Outcomes**

- Identification of the most suitable greenhouse material for wheat growth.
- Improved understanding of the role of greenhouse materials in plant development.

**References**

Next Page

Hypotheses

Method

Might be valid

Page Six

Kim, 2016

16/02/2016
A rough example on how the results table will look like:

<table>
<thead>
<tr>
<th>Material</th>
<th>Average Height</th>
<th>Average Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant A</td>
<td>15 cm</td>
<td>50 grams</td>
</tr>
<tr>
<td>Plant B</td>
<td>20 cm</td>
<td>70 grams</td>
</tr>
</tbody>
</table>

Only 2 days have passed, but the plant is already showing signs of being neglected. There is no water or light used. The plant is receiving light from above.

(Example results table)

Exponential Growth

Control experiment: In plant A, plants are to be placed under a green house in controlled conditions. In plant B, the plants are placed on the open field. However, in plant C, the plants are placed under a green house without being placed under a green house.

Page 3
Day four

It might be said

Day five

It might be said

Photographs are NOT included due to the fact that the graphs in this paper are simply unnecessary.

Jenny"
**Results**

- Hobart: 11°C
- Daytime: 35°F
- nighttime: 20°F

**Experiment Results**

- Hobart: 11°C
- Daytime: 55°F
- nighttime: 30°F

**Average Height of Plants (cm)**

<table>
<thead>
<tr>
<th>Day</th>
<th>Plant 1</th>
<th>Plant 2</th>
<th>Plant 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>20 cm</td>
<td>25 cm</td>
<td>30 cm</td>
</tr>
<tr>
<td>Day 2</td>
<td>22 cm</td>
<td>27 cm</td>
<td>32 cm</td>
</tr>
<tr>
<td>Day 3</td>
<td>24 cm</td>
<td>30 cm</td>
<td>35 cm</td>
</tr>
</tbody>
</table>

**Average Height of Weeds (cm)**

<table>
<thead>
<tr>
<th>Day</th>
<th>Weeds 1</th>
<th>Weeds 2</th>
<th>Weeds 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>10 cm</td>
<td>15 cm</td>
<td>20 cm</td>
</tr>
<tr>
<td>Day 2</td>
<td>12 cm</td>
<td>18 cm</td>
<td>22 cm</td>
</tr>
<tr>
<td>Day 3</td>
<td>14 cm</td>
<td>20 cm</td>
<td>25 cm</td>
</tr>
</tbody>
</table>

**Graphs**

- Hobart: Average height of plants
- Weeds: Average height of weeds

**Notes**

- Hobart weather:
- Hobart temperatures:
- Plant growth:
- Weed growth:

**Questions**

- Are they the same size?
- How fast does it grow?

**Photographs**

- Hobart plant growth
- Hobart weed growth