Keeping Green

Procedure

1. **Collaborate** Work in a small group. Use the chart below to help you test this hypothesis: Plant leaves need sunlight to stay green.

<table>
<thead>
<tr>
<th>Time</th>
<th>Uncovered Leaves</th>
<th>Covered Leaves</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 days</td>
<td></td>
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</tbody>
</table>

2. **Experiment** Place your plant in a sunny window or plant it outside in a sunny, sheltered spot. Use the cloth squares to cover at least three leaves. Leave at least one leaf uncovered to serve as a control.

3. **Predict** How do you think the different leaves will change over time? Record your prediction on the lines below.

________________________________________________________________________

________________________________________________________________________

4. **Record Data** Check the plant every day and give it water if the soil is dry. Every two days, remove the cover from one or more leaves. Record your observations, then cover the leaves again.

5. **Analyze Data** Discuss the differences that you observed and recorded. Compare the effects of blocking sunlight for two days, four days, and six days.
Conclusion

Write the answers to the questions.

1. **Use Variables**  What was the variable in this investigation? How did you change it? What was the control?

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   __________________________________________________________
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2. **Analyze Data**  Review the hypothesis and prediction. Did you prove the hypothesis to be true? Explain why or why not.

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**Investigate More!**

**Design an Experiment**  Plan and conduct an experiment on plants that tests another variable, such as water or soil quality. Describe the control in your experiment.