

General Format for Written Report

Note: This is an example of how your report should be organized. Keep in mind that the written information here is incomplete and fictional. Some reports may be more than 6 pages depending on the amount of materials used, number of steps in the procedure, and the conclusion. No report should be less than the number of pages listed below.

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The affect of pH on the stem growth of Marigold plants
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Introduction

Growing plants from seeds start with the germination of the seed. In order for the seed to germinate and grow several factors have to fall into place. Depending on the type of plant your growing, you need to have a certain amount of water, soil, oxygen and light. You also have to have patience as seeds germinate at different rates. Seeds when purchased are dormant. Dormancy will last until the dense protective layer surrounding the seed brakes open. The small embryo is then allowed to develop into a mature plant. As the embryo grows it will exit the seed coat with two small leaves.

One of the factors that can greatly affect the germination of

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Problem:

Will the pH of water affect the stem growth of a Marigold?

Hypothesis:

I think that the high pH of the water fed to the Marigold plant will cause a decrease in the amount of stem growth, because acids are known to be corrosive substances.

Materials:

1. Three cups of potting soil
2. Four small 2/14 inch jiffy seed starting pots.

Procedure:

1. Label the 4 jiffy seed pots, #1, #2, #3 and Tap Water (control)

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Data

Affect of ph on stem growth

Quarter	East	West	North
1st Qtr	20	30	45
2nd Qtr	25	35	45
3rd Qtr	90	35	45
4th Qtr	20	30	45

Independent variable

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Conclusion:

The seed that was watered with tap water was the only one to germinate. The other seeds in labeled pots #1, #2, #3 had no visible growth during the fourteen day experiment. The seed watered with just tap water, my control, had an average growth of 2.8 centimeters of stem growth over the fourteen day period. This data supports my hypothesis that the seed watered with the tap water would have the best growth.

If I were to repeat this experiment I would use mature plants. This would allow me to see the affect of ..

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Bibliography

Keating, Richard C. "Germination" World Book Online Resource Center, 2005. World Book Inc. 2 Jan. 2005

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