

Name:  
Teacher:  
Class:  
Date:

**The Effect of \_\_\_\_\_ on \_\_\_\_\_**

(Independent variable)

(Dependent variable)

**Introduction**

The experiment conducted was to \_\_\_\_\_

\_\_\_\_\_

The purpose of the experiment was to \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ was changed and \_\_\_\_\_

\_\_\_\_\_

was measured to see if the changes made a difference.

The prediction was if \_\_\_\_\_ seeds are given \_\_\_\_\_ milliliters of water, then \_\_\_\_\_ seeds will germinate, because \_\_\_\_\_.

Three reasons to support this prediction include, \_\_\_\_\_, and \_\_\_\_\_ and finally, \_\_\_\_\_.

**Materials:**

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**Procedures:**

1. Put a piece of tape on the lid of the petri dish and write your name on the tape.
2. Trace petri dish bottom on quartered paper towel and cut out the tracing.
3. Place tracing in bottom of petri dish and draw a large + sign on the paper towel.
4. Label each quadrant with the type of seed that will be in it: 'bean', 'pea', 'radish', and 'lettuce'. Place two seeds of each type in the appropriate quadrant.

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**Results:**

Germination Lab Tables

**Germination Lab Results\***

Amount of Water Used	Type of Seeds	Number of Seeds	Number that Germinated	Percent that Germinated	To Germinate, seeds need
<i>Period ____ average water usage and average number of seeds that germinated was</i>	Beans				
	Peas				
	Radish				
	Lettuce				
<b>____ ml. and ____ seeds</b>	<b>TOTAL</b>				

\* These results represent the entire Period \_\_\_\_ class.

### The Effect of Average Water Usage on Average # of Seeds Germinated

Average Water Usage per Class	P_ ___ ml used	P_ ___ ml used	P_ ___ ml used	P_ ___ ml used	___ Team ___ ml used
Average # of Seeds Germinated per Class					
% Seeds Germinated					

On average, \_ seeds germinated for Period \_\_, having used \_\_\_ milliliters of water.  
 Period \_\_ had the highest germination percentage rate of \_\_\_ %.

Germination Lab Graph

### The Effect of Water Amount on Seed Germination

**Discussion:**

**Claim-**

The purpose of the experiment was to \_\_\_\_\_

The prediction was if \_\_\_\_\_ seeds are given \_\_\_\_\_ milliliters of water, then \_\_\_\_\_

seeds will germinate, because \_\_\_\_\_.

**Evidence-**

The independent variable was \_\_\_\_\_ and the dependent variable was \_\_\_\_\_. The results \_\_\_\_\_ support the prediction because \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

For Science, Period \_\_\_\_, on average \_\_\_\_\_ milliliters of water was added, and \_\_\_\_\_ seeds germinated. For Science, Period \_\_\_\_, on average \_\_\_\_\_ milliliters of water was added, and \_\_\_\_\_ seeds germinated. For Science, Period \_\_\_\_, on average \_\_\_\_\_ milliliters of water was added, and \_\_\_\_\_ seeds germinated. For Science, Period \_\_\_\_, on average \_\_\_\_\_ milliliters of water was added, and \_\_\_\_\_ seeds germinated. For the \_\_\_\_\_ Team, on average \_\_\_\_\_ milliliters of water was added, and \_\_\_\_\_ seeds germinated.

**Reasoning-**

Having used \_\_\_\_\_ milliliters of water, Period \_\_\_\_\_ had the best average germination rate with \_\_\_\_\_ seeds germinating. Period \_\_\_\_\_ had \_\_\_\_\_ % of all seeds germinate.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The results were reliable, because \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

In conclusion, the right amount of water to germinate \_\_\_\_\_ seeds in six school days is \_\_\_\_\_ milliliters, because that is what happened in this experiment. The new prediction is if eight

seeds are given \_\_\_\_\_ ml of water, then \_\_\_\_\_ seeds will germinate, because seeds need water to germinate.

An unexpected result was that \_\_\_\_\_

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The unexpected results may have happened because \_\_\_\_\_

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**Applications:**

This procedure could be used to test a variety of variables on the germination rate of seeds. For example, scientists could use \_\_\_\_\_,

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or \_\_\_\_\_ in the attempt to germinate seeds. Farmers could also use this information for the further investigation of \_\_\_\_\_.

From this experiment it can be learned that seeds will germinate with the right amount of water, Period \_\_\_\_\_, showed that on average \_\_\_\_\_ milliliters of water would germinate \_\_\_\_\_ seeds on average. The results of this experiment could also be applied to \_\_\_\_\_,

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