

Name: _____

Date: _____

TITLE: CREATING AND INTERPRETING LINE GRAPHS

INTRODUCTION: Line graphs are often used as visual illustrations which explain scientific findings. The findings, or data, are often arranged in a table which can then be used to create a line graph. Interpreting or explaining line graphs is an important skill which will better enable you to succeed in the Living Environment course. The purpose of this lab includes:

- to strengthen important graphing skills;
- to gain a better understanding of how to explain what a line graph represents.

MATERIALS: The materials used were:

- pencil, graph paper, ruler, hot plate, water, beaker, thermometer, stopwatch

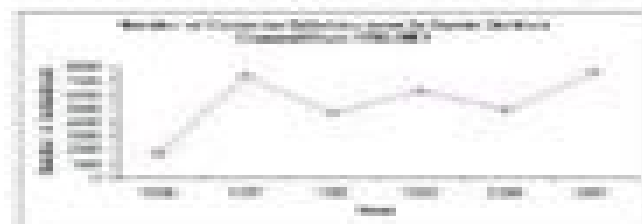
PROCEDURE:

- Fill the beaker with water and insert a thermometer
- Turn on the hot plate and set the dial to "1"
- At five-minute intervals, for a total of 30 minutes, measure the temperature of the water as it is heated
- Record the data in the table provided in the DATA section.

How to Draw a Line Graph: Use your ruler to draw the x (horizontal) and y (vertical) axes on your graph paper. Label each of the axes with the appropriate title and make sure to include the units of measure for each side. The x-axis should be the independent variable while the y-axis should be the dependent variable. The independent variable is what you are manipulating in the experiment and the dependent variable is what you are measuring in the experiment.

Decide on a scale for each axis. The axes do not need to match one another, but the scales used must be consistent. For example, you can count by 5's- 5, 10, 15, 20- or by 100's- 100, 200, 300, 400- and be sure to skip the same number of boxes in between each number. Plot the points according to the information in the data table. Once all the points are plotted, "connect the dots" with straight lines from the left to the right regardless of how it is written in the data table.

The title of the graph should clearly state what the graph is depicting. An example of a clear title is The Effect of Water Temperature on the Breathing Rate of Fish. The title should be written at the top of the graph. Below is an example of a correctly drawn and labeled line graph.



Regents Biology Lab Manual

J Spring



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