

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

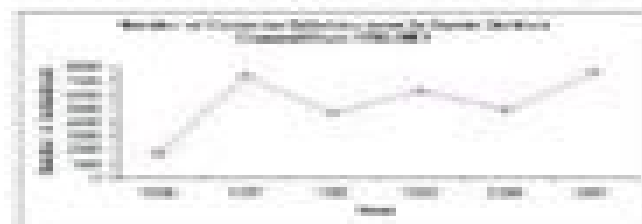
PROCEDURE:

- 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.



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Introductory Biology 2C Lab Manual Regents of California UC Davis, 2021-08 **America's Lab Report** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished *Report of the Board of Regents* California. University. Regents, 1917 **The Cumulative Book Index** ,1922 *A Study of Biology Notebook Work in New York State* Don Otto Baird, 1929 Resources in Education ,1991

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