

Laboratory Skills 8**Using Graphing Skills****Introduction**

Recorded data can be plotted on a graph. A graph is a pictorial representation of information recorded in a data table. It is used to show a relationship between two or more different factors. Two common types of graphs are line graphs and bar graphs.

In this investigation, you will interpret and construct a bar graph and a line graph.

Problem

How do you correctly interpret and construct a line graph and a bar graph?

Pre-Lab Discussion

Read the entire investigation. Then, work with a partner to answer the following questions.

1. Would a line graph or a bar graph be better for showing the number of birds of each color in a population?

bar graph

2. How could you plot more than one responding variable on a line graph?

you can make different types of lines

3. Where do you place the manipulated variable on a line graph?

Independent variable and you put it on the x-axis.

4. Which type of graph would you use to show comparisons? Explain the reason for your answer.

bar graph because of its visual

5. Why is it important to have all parts of a graph clearly labeled and drawn?

so you can gather your data and be more organized. It helps you understand more.

Part A. Interpreting Graphs

1. The type of graph that best shows the relationship between two variables is the line graph. A line graph has one or more lines connecting a series of points. See Figure 1. Along the horizontal axis, or x-axis, you will find the manipulated variable in the experiment. Along the vertical axis or y-axis, you will find the responding variable.

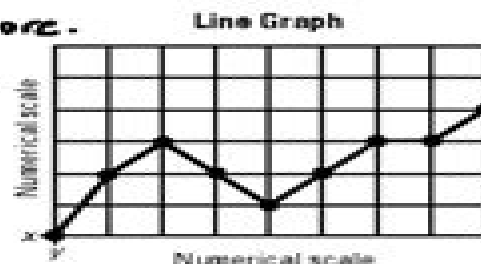


Figure 1

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L Darling-Hammond



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Differentiated Instructional Strategies for the Block Schedule Gayle H. Gregory, Lynne E. Herndon, 2010-06-28 Eliminate idea block with this practical resource that includes more than 100 planning tools matrixes rubrics templates and choice boards for differentiating instruction during extended learning blocks Laboratory Unit Operations and Experimental Methods in Chemical Engineering Omar M. Basha, Badie I. Morsi, 2018-10-10 This book covers a wide variety of topics related to the application of experimental methods in addition to the pedagogy of chemical engineering laboratory unit operations The purpose of this book is to create a platform for the exchange of different experimental techniques approaches and lessons in addition to new ideas and strategies in teaching laboratory unit operations to undergraduate chemical engineering students It is recommended for instructors and students of chemical engineering and natural sciences who are interested in reading about different experimental setups and techniques covering a wide range of scales which can be widely applied to many areas of chemical engineering interest *Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c* Prentice Hall Direct Education Staff, 2001-04 One program that ensures success for all students **Prentice Hall Biology, 2002** Irvine Welsh, Prentice-Hall Staff, 2001-04 One program that ensures success for all students **Conference Proceedings**, 1999 **Biology** Kenneth Raymond Miller, Joseph S. Levine, 1995 What Research Says to the Science Teacher, 1978 Grade level 1 2 3 4 5 6 7 8 9 10 11 12 p e i s t Resources in Education, 1984 Biology Joseph S. Levine, Kenneth Raymond Miller, Prentice-Hall Staff, 1998-05 *The Journal of Computers in Mathematics and Science Teaching*, 1992 *Selected Integrated and Applied Curricula in Wisconsin Secondary Schools*, 1999 **Improving Instruction of Motion and Energy Through a Constructivist Approach and Technology Integration** Sandra Lum Erwin, 2004 **The SAGE Encyclopedia of Educational Technology** J. Michael Spector, 2015-01-29 The SAGE Encyclopedia of Educational Technology examines information on leveraging the power of technology to support teaching and learning While using innovative technology to educate individuals is certainly not a new topic how it is approached adapted and used toward the services of achieving real gains in student performance is extremely pertinent This two volume encyclopedia explores such issues focusing on core topics and issues that will retain relevance in the face of perpetually evolving devices services and specific techniques As technology evolves and becomes even more low cost easy to use and more accessible the education sector will evolve alongside it For instance issues surrounding reasoning behind how one study has shown students retain information better in traditional print formats are a topic explored within the pages of this new encyclopedia Features A collection of 300 350 entries are organized in A to Z fashion in 2 volumes available in a choice of print or electronic formats Entries authored by key figures in the field conclude with cross references and further readings A detailed index the Reader s Guide themes and cross references combine for search and browse in the electronic version This reference encyclopedia is a reliable and precise source on educational technology and a must have reference for all

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Microcomputer-Based Labs: Educational Research and Standards Robert Tinker, 1996-12-13 Proceedings of the NATO Advanced Research Workshop on Microcomputer Baded Labs Educational Research and Standards held in Amsterdam The Netherlands November 9 13 1992 The Effect of Introducing Computers Into an Introductory Physics Problem-solving Laboratory Laura Ellen McCullough, 2000 **Graduate Research in Urban Education and Related Disciplines** , 1992

Illinois Chemistry Teacher , 2007

Using Graphing Skills Lab Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Using Graphing Skills Lab**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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