

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?

Using multiple lines on a line graph with a corresponding key as to the responding variable that each line represents.

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

The x-axis.

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

Bar graph. On bar graphs the x-axis can have labels instead of a numerical scale.

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

Graphs that are clearly labeled are much less likely to be misread or misinterpreted.

Procedure

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.

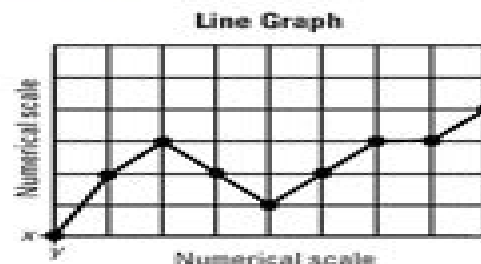


Figure 1

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this research in three integrated areas Design Design of learning and teaching environments tools or media including innovative curricula multimedia artificial intelligence telecommunications technologies visualization modeling and design theories and activity structures for supporting learning and teaching Cognition Models of the structures and processes of learning and teaching by which knowledge skills and understanding are developed including the psychological foundations of the field learning in content areas professional learning and the study of learning enabled by tools or social structures Social Context The social organizational and cultural dynamics of learning and teaching across the range of formal and informal settings including schools museums homes families and professional settings Investigations in the learning sciences approach these issues from an interdisciplinary stance combining the traditional disciplines of computer science cognitive science and education This book documents the proceedings of the Fourth International Conference on the Learning Sciences ICLS 2000 which brought together experts from academia industry and education to discuss the application of theoretical and empirical knowledge from learning sciences research to practice in K 12 or higher education corporate training and learning in the home or other informal settings *Life Science, Grades 6-7* Tony Wright,1994-07-13

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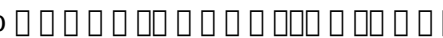
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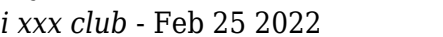
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