Module 1: Fundamentals of Biology

Topic 3 Content: Types of Graphs Notes

Introduction

There are many different types of graphs, and each one has a different purpose. Learning how to create and interpret graphs is an important part of conducting scientific investigations. Different types of data require different types of graphs. Click on the label for each type of graph to learn more.
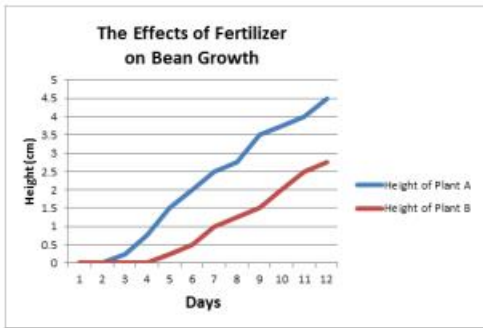
Line Graph

Types of Graphs

Line Graph

The Effects of Fertilizer on Bean Growth

A line graph displays quantitative data, which includes exact measurements. A line graph is a type of graph that draws trends by connecting data points on a graph. The y-axis label contains the dependent variable information.

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Bar Graph

Bar graphs are used to compare non-numerical and qualitative data, such as color, texture, or smell. A bar graph is a horizontal or vertical representation of data in different sized bars. The y-axis label contains the dependent variable information.

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Pie Graph

The pie chart (circle graph) is a circular chart used to show proportions or percentages. The chart gets its name due to the resemblance to a pie which has been sliced. Pie charts are used to graph statistical data. The sum of the percentages in the chart should always equal one hundred percent.