

Module 1: Fundamentals of Biology

Topic 3 Content: Types of Graphs Notes

Introduction

Types of Graphs

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.

The figure contains three distinct graphs. The first is a line graph titled 'The Effects of Fertilizer on Bean Growth' showing two upward-sloping lines representing growth over 12 days. The second is a bar graph titled 'Number of Rabbits Counted Per Month' showing monthly counts from January to December. The third is a pie chart titled 'Gases in Earth's Atmosphere' showing the percentage composition of Nitrogen, Oxygen, Argon, and Other Gases.

Line Graph

Bar Graph

Pie Graph

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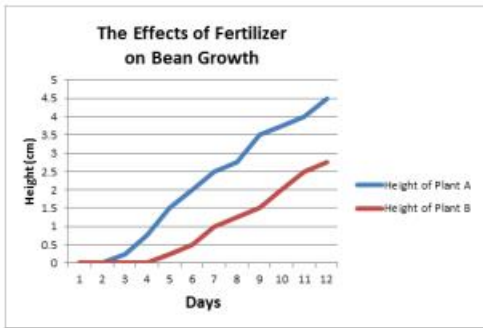
Topic 3 Content: Types of Graphs Notes

Line Graph

Types of Graphs

Line Graph

Line Graph




Days	Height of Plant A (cm)	Height of Plant B (cm)
1	0.0	0.0
2	0.0	0.0
3	0.2	0.0
4	0.5	0.0
5	1.5	0.1
6	2.0	0.5
7	2.5	1.0
8	3.0	1.5
9	3.5	2.0
10	4.0	2.5
11	4.5	2.8
12	4.8	3.0

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.

Bar Graph

Pie Graph

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Bar Graph

Types of Graphs

Line Graph

Bar Graph

Pie Graph

Bar Graph

Month	Number of Rabbits
January	10
February	10
March	15
April	25
May	35
June	50
July	60
August	65
September	50
October	35
November	20
December	15

Number of Rabbits

Month

Number of Rabbits

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

Types of Graphs

Line Graph
Bar Graph
Pie Graph

Pie Graph

Gas	Percentage
Nitrogen	78.00%
Oxygen	21.00%
Argon	0.90%
Other Gases	0.10%

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.

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