

## Graphing and Analyzing Scientific Data

Graphing is an important procedure used by scientist to display the data that is collected during a controlled experiment. There are three main types of graphs:

Pie/circle graphs: Used to show parts of a whole.

Bar graphs: Used to compare amounts.

Line graphs: Use to show the change of one piece of information as it relates to another change.

Both bar and line graphs have an "X" axis (horizontal) and a "Y" axis (vertical).

#### Parts of a Graph:

Title: Summarizes information being represented in ANY graph.

<u>Independent Variable:</u> The variable that is controlled by the experimenter, such as, time, dates, depth, and temperature. This is placed on the X axis.

Dependent Variable: The variable that is directly affected by the I.V. It is the result of what happens as time, dates, depth and temperature are changed. This is placed on the Y axis.

Scales for each Variable: In constructing a graph, one needs to know where to plot the points representing the data. In order to do this a scale must be employed to include all the data points.

A. Graph the following information in a BAR graph. Label and number the x and y-axis appropriately.

Month	# of deer
Sept	38
Oct	32
Nov	26
Dec	20
Jam	1.5
Feb	1.2



- What is the independent variable? \_\_\_\_\_\_
- 2. What is the dependent variable?
- What is an appropriate title? \_\_\_\_\_

# **Analyzing Genetic Data Worksheet**

**PT Brinkman** 



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