

Name \_\_\_\_\_

## Collecting & Analyzing Data

**Background Information:** Data gathered during an experimental investigation must be collected in some organized manner. A **DATA TABLE** is usually used. The data table is frequently designed as part of the experimental design. The data table includes the **REDUCED DATA** – averages, percents, frequencies, range or other **MEASURES OF CENTRAL TENDENCY**.

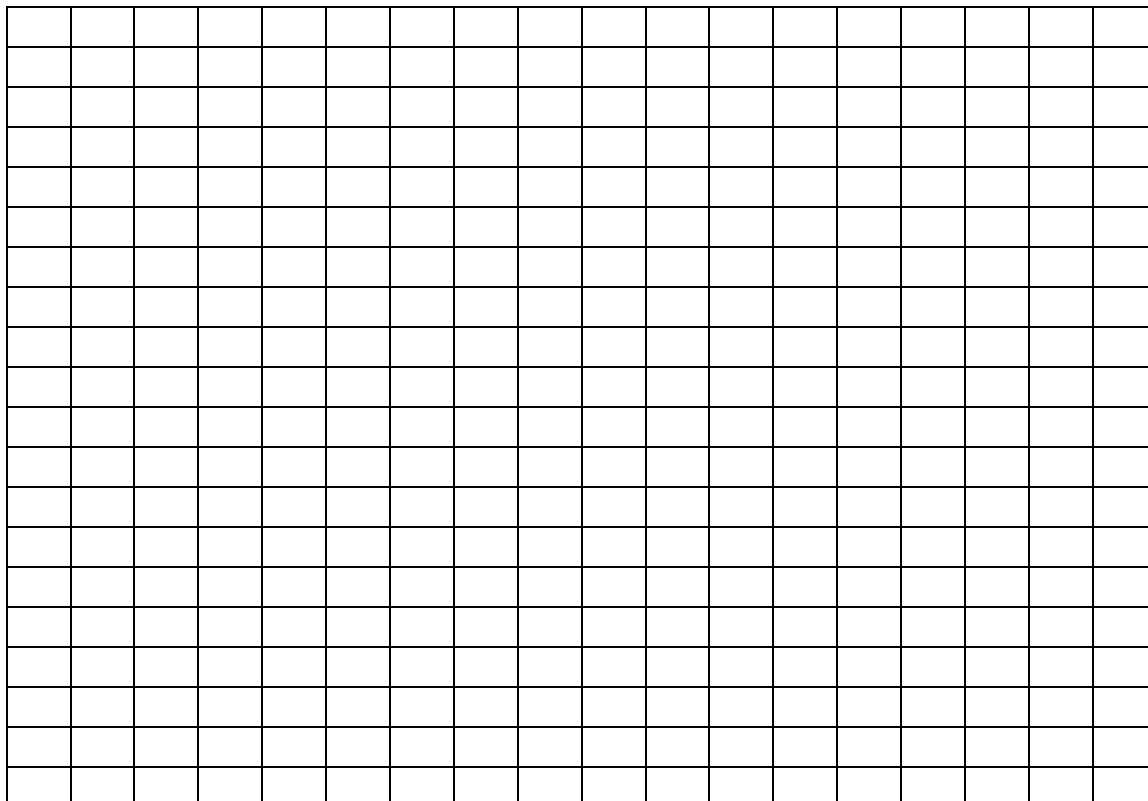
The reduced is data is frequently **GRAPHED** so that **PATTERNS**, **TRENDS**, and **RELATIONSHIPS** can be seen.

Make your *data collection table* below:

Graph your data here:

Title of graph \_\_\_\_\_

*The dependent variable is plotted on the Y-axis*



*The independent variable is plotted on the X-axis*

**Graphing:**

- ☆ All graphs must have a descriptive title
- ☆ The specific and general independent variables must be include
- ☆ Units of measurement must be included
- ☆ Graphs must be scaled appropriately
- ☆ Different types of data need different types of graphs.

