



Nature of Science

Name _____



Collecting Data

Purpose: To practice making organized data tables

Background Information: Data gathered during an experimental investigation must be collected in some organized manner. A DATA TABLE or DATA CHART is usually used. The data table is frequently designed as part of the experimental design. **Charts** are lists of information; they may also be diagrams or pictures. **Tables** are numerical displays in columns and rows.

Quality tables and charts have a title. The title describes exactly what the data in the table or chart refers to.

Tables and charts include the variables and units of measurement. The units of measurement are put in parenthesis. They are always metric units.

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:



Repeated trials are needed to make sure data is reliable. If each group gets three capsules, how will we get the number trials we need?