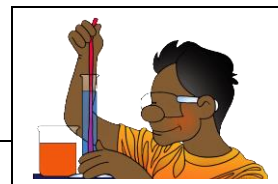
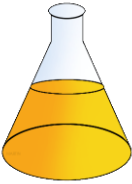

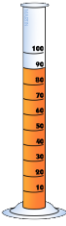
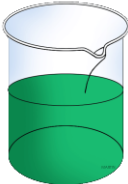



## Week 2 – SCIENCE NOTE PAGE

### Tools, Measurement, Graphs, & Tables



*Scientific Tools:* Here are a FEW examples; **ADD the name for each:**

<b>TOOL</b>					
<b>NAME</b>					

#### Measurement

- **INTERNATIONAL SYSTEM OF UNITS (SI)** – The standard systems of measurement use by scientists around the world; used so that scientists can \_\_\_\_\_ measurement data

SI Base Units		
QUANTITY	Unit	Symbol
Length	meter	m
Mass	kilogram	kg
Temperature	Kelvin	K
Volume	liter	l
Time	second	s
Electric Current	Ampere	A

- **Length:** the distance from one end of an object to the other; Example: how tall a person is; **SI Unit:** meter (m); or centimeter (cm) or millimeter (mm)
- **Mass:** the amount of material something has in it; Example: golf ball has more mass than a ping-pong ball; **SI Unit:** kilogram (kg); or gram (g)
- **Volume:** the space an object occupies; **SI Unit:** liter (l); or milliliter (ml) or centimeters cubed (cm<sup>3</sup>)
- **Temperature:** degree of hotness or coldness of a body or an environment; Example: a person's body temperature; **SI Unit:** Kelvin (K); or Celsius (°C)
- **Time:** an interval separating two points of this quantity; a duration; Example: the time class is held; **SI Unit:** second (s); or minutes (min), hours (hr)
- **Electric current:** the time rate of flow of electric charge; **SI Unit:** Ampere (A)

#### Data Organization

- A **TABLE** is a chart that has \_\_\_\_\_ columns and rows, which are used to arrange information and/or data collected during experiments; see ↑ Example: SI Base Units
- A **GRAPH** is a \_\_\_\_\_ showing the relationships between two or more variables; representing data from experiments
  - *Types of Graphs:*
    - **Bar Graph** – compares many variables by how much and how many
    - **Line Graph** – shows one variable over time
    - **Pie Chart** – shows parts of a whole (percentages)
    - **Pictograph** – shows how many with an icon or picture
- **QUANTITATIVE DATA:** data in **N**umeric form –uses \_\_\_\_\_
  - Example: describing height in feet and inches: 5 ft 4 in
- **QUALITATIVE DATA:** data in **L**anguage form –uses \_\_\_\_\_
  - Example: describing height with words: short/tall

