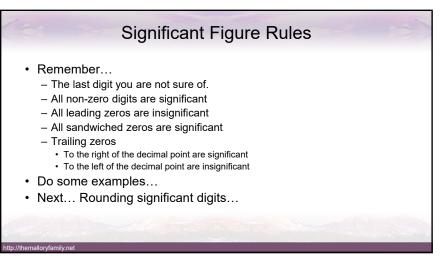
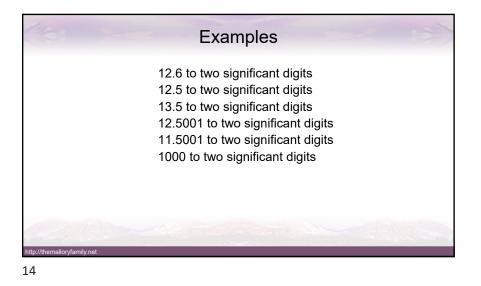
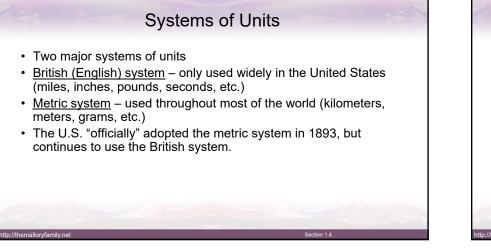


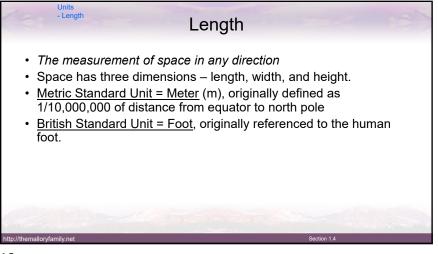
		Example Sig.	Digits	Sci-Notation	
	1 All non-zero digits are significant				
		1.589 0.897 36000	4 3 2	1.589E+00 8.97E-01 3.6E+04	
	2 Significant Zero's				
	a All sandwiched zero's	13.02 1.0002 10.5	4 5 3	1.302E+01 1.0002E+00 1.05E+01	
	b All trailing zero's preceded by a digit to the right of the decimal point.	5.000 20.000 15.00	4 5 4	5.000E+00 2.00000E+01 1.500E+01	
	3 Non significant Zero's				
	a Leading Zeros	0.0200 0067	3	2.00E-02 6.7E+01	
	b Trailing Zero's to the left of the decimal point in a number without a decimal point	56000 1360	2	5.6E+04 1.36E+03	
a manager	*NOTE: Write the numbers in exponential notal indicate the power of 10 (order of magnitude) a			All zeros used to	

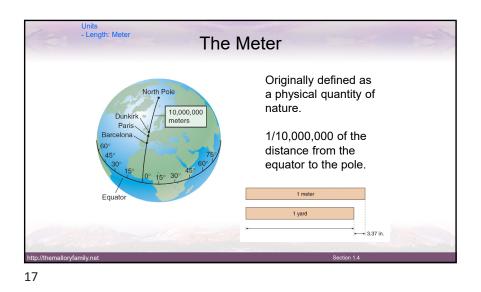


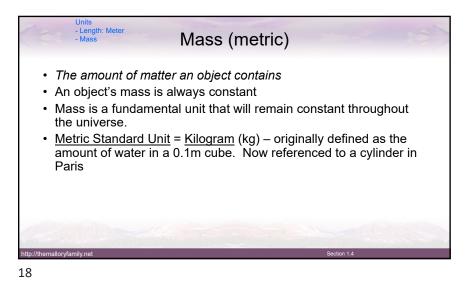
Roundi	ng Off	
1 If the last digit to be retained in a number is follow ROUND DOWN. Round to 3 significant figures:	ed by a number less than 5	(<5),
28.23	rounds to	28.2
578.1	rounds to	578
3.6502	rounds to	3.7
3 If the last digit to be retained in a number is follow),
ROUND the last digit retained to an EVEN NUME),
), 1.8
ROUND the last digit retained to an EVEN NUME Round to 2 significant figures:	SER.	
ROUND the last digit retained to an EVEN NUME Round to 2 significant figures:	rounds to	1.8
ROUND the last digit retained to an EVEN NUME Round to 2 significant figures: 1.75 1.050	rounds to rounds to	1.8
ROUND the last digit retained to an EVEN NUME Round to 2 significant figures: 1.75 1.050 1.45	rounds to rounds to	1.8

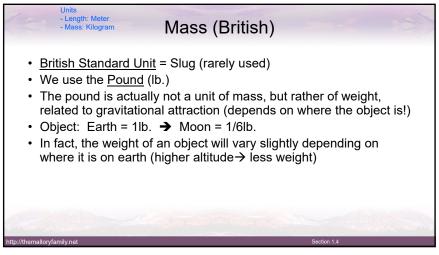


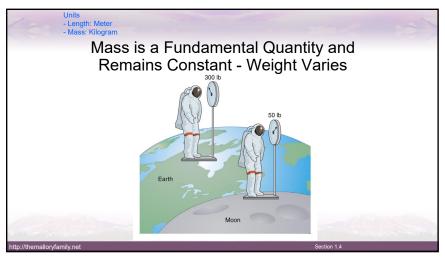


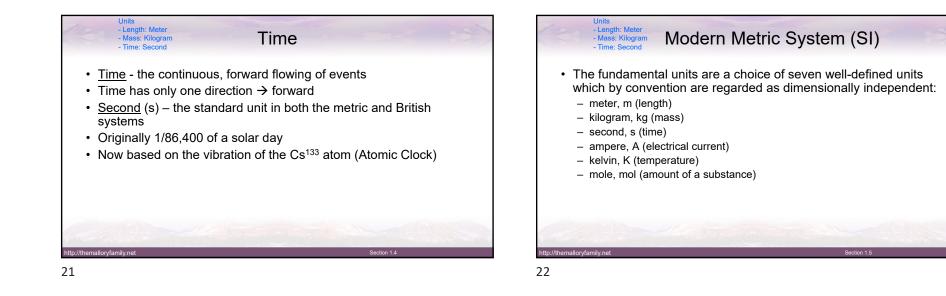


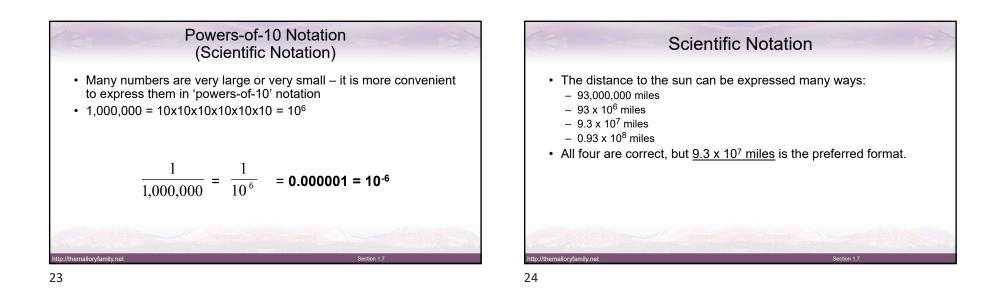


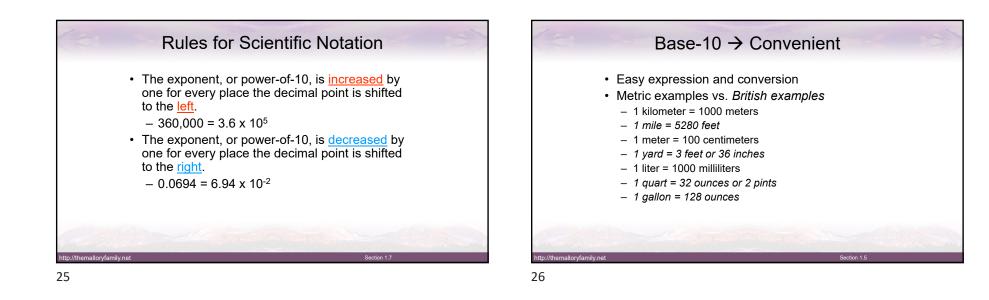


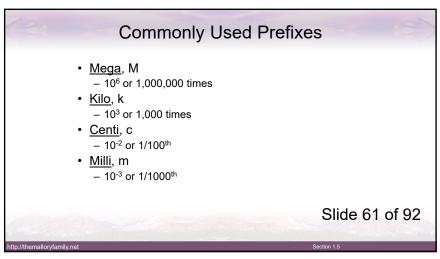


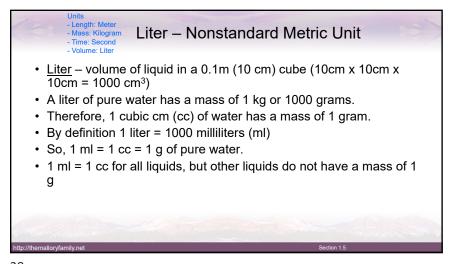


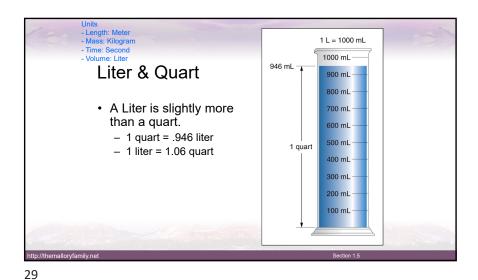


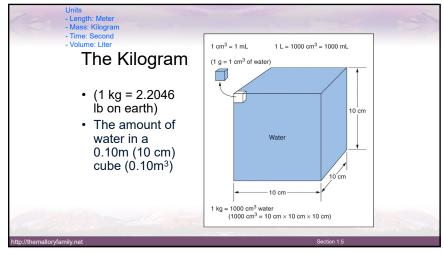


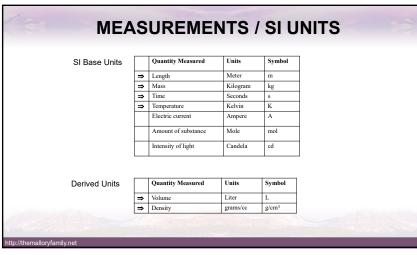


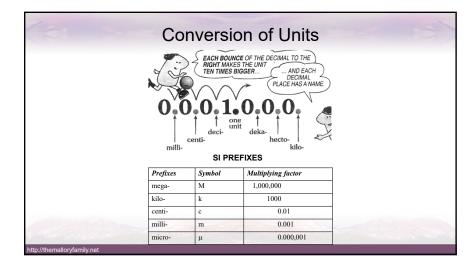




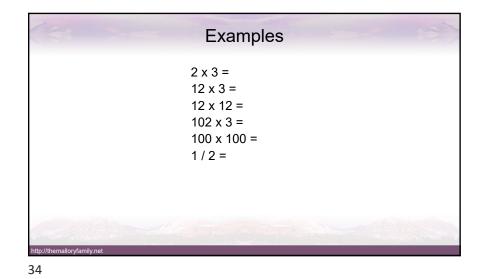


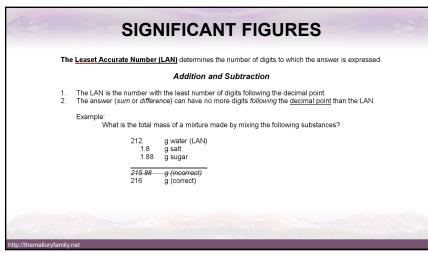


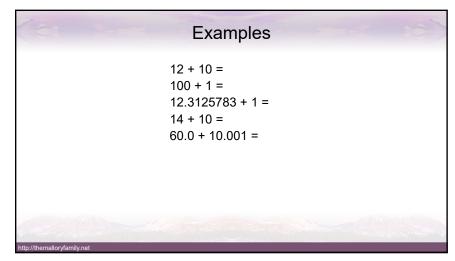


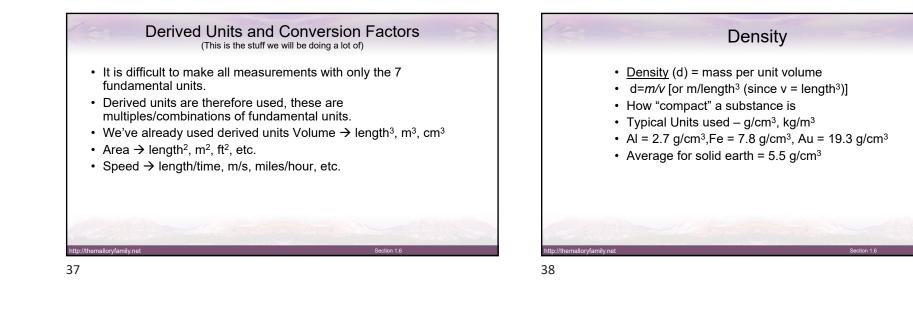


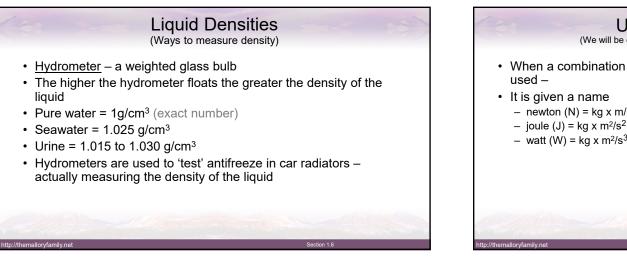
	SIGNIFICANT FIGURES
	Multiplication and Division
1. 2.	The LAN is the number with the least number of significant figures. The answer (<i>product</i> or <i>quotient</i>) can have no more significant figures than the LAN.
	Example! Calculate the volume of a rectangular solid that has a length of 4.16 cm, a width of 2.2 cm, and a height of 2.00 cm.
	Volume = Length x Width x Height
	Volume = (4.16cm) (2.2cm) (2.00cm) LAN
	Volume = 18.304 cm ³ (incorrect)
	Volume = 18 cm ³ (correct)

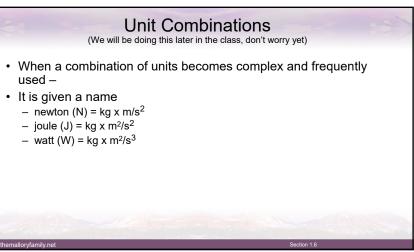


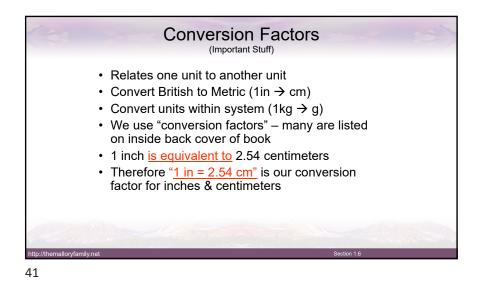


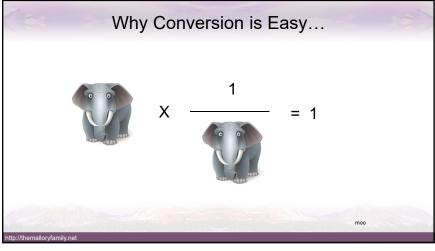




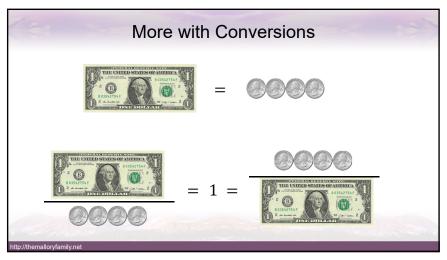


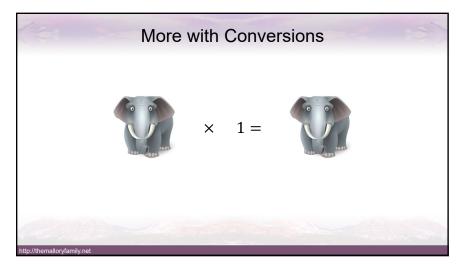


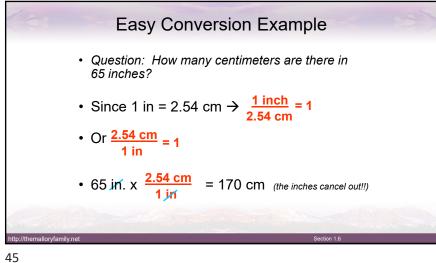


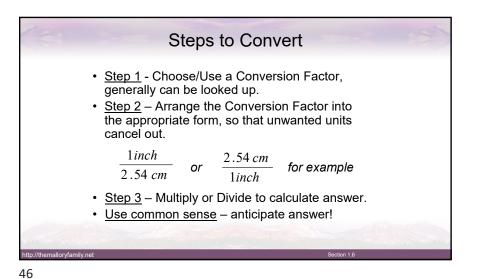






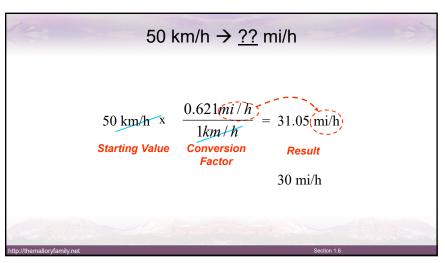


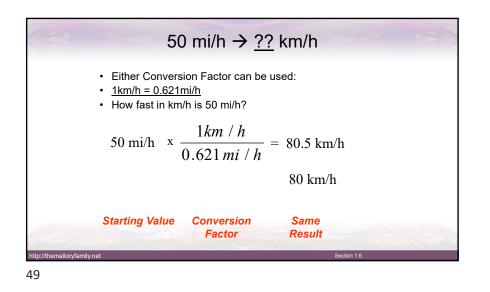


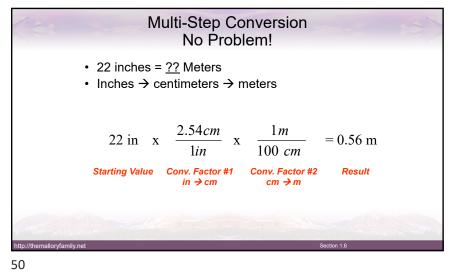


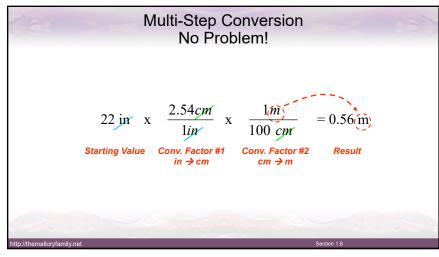


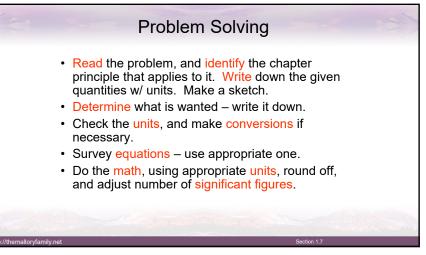


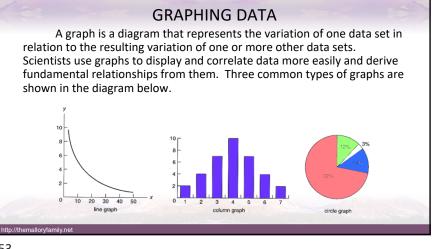












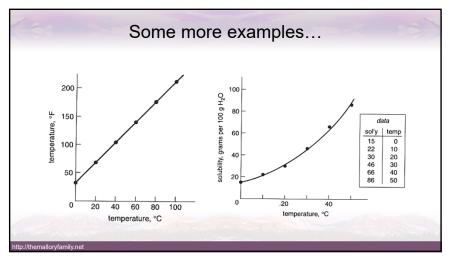


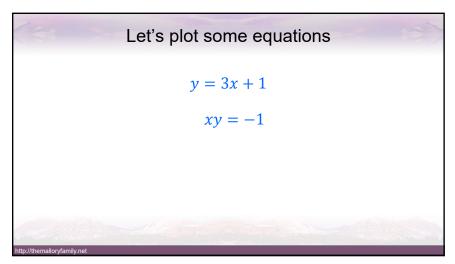
A line graph is used to compare the values of two variables. The independent variable is plotted along the x-axis, while the dependent variable is plotted along the y-axis. The independent variable is the property that is varied by the experimenter, and the dependent variable is the property that is measured in the experiment.

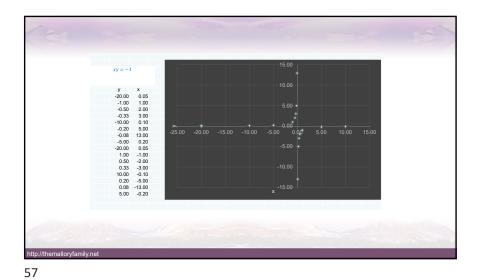
A bar or column graph is used to compare the values of several individually collected data, such as number of students in a class with a particular grade, or the tearstrength of various plastic materials. A pie or circle graph is used to show the relationship of a part to the whole, such as percent composition of elements in a compound, or percent of monthly budget used for various expenditures.

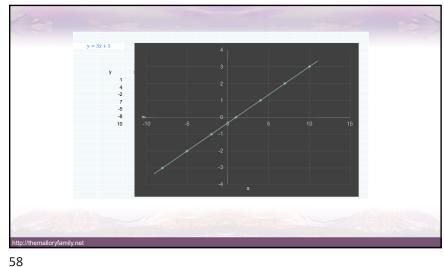
The most common type of graph used in scientific work is a line graph. Shown below are two examples of data plotted as line graphs. Note that not all line graphs are straight lines, and not all data points intersect the graph.

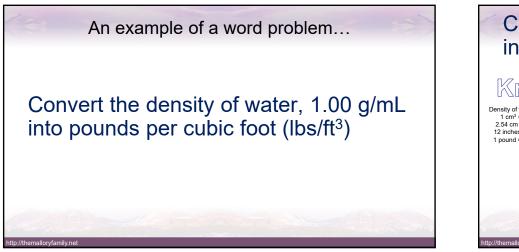


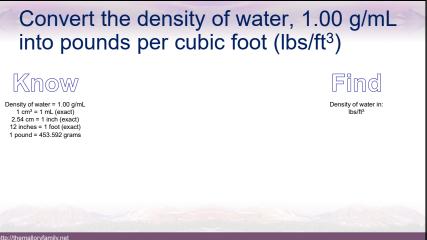


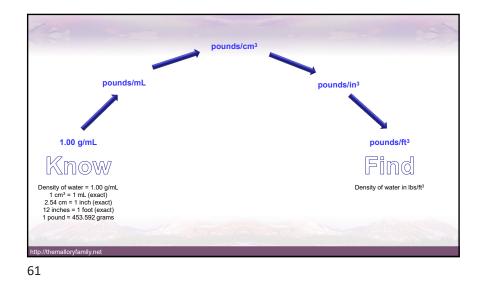












$$\frac{1.00 \text{ g/mL}}{\text{m/L}} = \frac{1 \text{ pounds/mL}}{453.592 \text{ g}} + \frac{1 \text{ m/L}}{1 \text{ cm}^3} + \left(\frac{2.54 \text{ cm}}{1 \text{ inch}}\right)^3 + \left(\frac{12 \text{ inch}}{1 \text{ foot}}\right)^3$$

