

Write the equations for complete combustion and incomplete combustion. Include the names and formulas for the reactants and products. Indicate which is fuel lean and which is fuel rich.

Write out the formulas for density, percent error, percent composition, volume of a rectangular object, and volume of a cylinder.

Provide the symbols and units for mass, volume of a solid, volume of a liquid, density, the speed of light, square meters, and cubic meters.

Write conversion factors for inches to centimeters, gallons to liters, pounds to grams, cubic centimeters to milliliters, cubic decimeters to Liters, cubic meters to cubic centimeters, square meters to square centimeters

Write the SI base units for length, mass, time, temperature, amount, electric current, and luminous intensity.

List 5 characteristics each of a fuel lean flame and a fuel rich flame. Provide an example of each.

Explain uncertainty, using examples. Draw a picture if desired.

Draw the staircase method for moving a decimal point. Include prefixes and provide an example of how to use it.

Explain what a conversion factor is and why it's used. Include one example using the metric system and one using English-to-metric.

Write the rules for scientific notation (include base and coefficient). Show how to multiply and divide in scientific notation; provide examples of each.

Make a table including the sixteen metric prefixes, their symbols, and the fraction/exponent of the base unit they represent.

Use a diagram to show the difference between precision and accuracy. Include definitions

Write 5 rules for counting significant figures.

Complete p.72 #13. Show all work and use the correct sig figs.

Complete p.72 #14 (all). Write out problems and answers.

Use dimensional analysis to complete p.84 #32 (all). Show all work, including conversion factors and units here.

Provide a sketch which explains the steps in the scientific method. You may use your textbook for this if you get stuck!

Complete p.70 #6 in the practice problems. Show work.

Draw a map of North America that explains the Atlantic-Pacific Rule.

Complete p.86 #36. Use dimensional analysis and include conversion factors and units.

Complete p.93 #56. Use dimensional analysis and include conversion factors and units. Watch your sig figs!

Complete p.71 #7 (all) in the practice problems. Show work.

Describe 2 ways to calculate volume of an object.

Explain *why* we use significant figures in science.

Draw a table which describes when a zero is a significant figure and when it is not.

Describe the rules for sig figs when adding and subtracting. Provide example.

Describe the rules for sig figs when multiplying and dividing. Provide an example.