REGULARS Fall Final Exam Topics \* I may add topics to this list up until Wednesday, 12/13

The very best way to study for your exam is to look at old quizzes, tests, and powerpoint presentations

From Unit 1:

* Know the correct units for measurement on a triple beam balance, meter stick, and graduated cylinder
* Know how to use water displacement to measure the volume of an irregularly shaped solid object
* Understand why we use the SI units of measurement and be able to state the SI units of measurement for: length, mass,

time, temperature, speed

* Know the names, symbols, and decimal values of the metric system from milli to kilo
* Name the steps of the scientific method in order
* Be able to take the parts of an experiment and label them as independent variable, dependent variable, or constants
* Be able to construct an IVCDV chart for an experiment
* Write a hypothesis using the if/then format, based on information given about an experiment
* State the 3 types of graphs (line, bar, pie) and what kinds of data they are typically used to represent
* Be able to interpret a graph’s information
* Know your slope formula and be able to calculate the slope of a graph
* Know your lab safety rules and be able to look at a picture and say what is wrong/right with it concerning its lab safety
* Know the colors, labels, and numbering system of the NFPA diamond
* Know the density formula and be able to calculate density

Unit 1 Vocab:

slope, slope-intercept form, SI units (listed above), metric prefixes (listed above), dependent/independent variables, constants, control, volume, mass, density, NFPA diamond

From Unit 2:

* Understand the difference between distance & displacement; be able to calculate both when given a problem, including using the speed equation to calculate either time or distance
* Know the formulas for speed, velocity, and acceleration; and be able use them to solve for any of their variables; know their units
* Interpret position vs. time graphs and velocity vs. time graphs (remember that a horizontal line on these graphs does not mean the same thing)

Unit 2 Vocab:

motion, distance, displacement, speed, average speed, velocity, average velocity, acceleration