

C30A Lecture Exam #1 Outline

7th ed text chapters 1-2.5 (in 2.5 you are just responsible for the element names & symbols for Groups 1A, 2A, 7A & 8A)

→Metric system, unit conversions, “drug label” problems

→specific heat & heat calculations; **Note: you do NOT have to memorize the equation: Heat = (mass) x (sp ht) x (ΔT)**

→problems similar to some from Lab #1 using the equation $D = \frac{m}{V}$

→Know the density of water

→questions about MP & BP; temperature conversion (you do not have to memorize the °C to °F conversion formula)

→periodic table (PT): element names & symbols (the ones you were asked to memorize)

→atomic mass/weight

→atomic number

→protons, neutrons, electrons

→isotopes

significant figures (SF); SF rules are also used in all problems

EXAM INSTRUCTIONS→ Double check your answers. I will try to give full credit for a fully correct answer for which you have just made a Scantron marking error. However I cannot guarantee that I will catch all such errors.

* **All** problems are to be legible and set up in an orderly manner. **I can't grade what I can't read and follow. No points without showing a set up and route to your answer if the problem is of a mathematical nature (problems with an M by the problem number). In other words, if it appears that you are guessing you will receive a zero for the problem. The problem set up needs to be correct to receive full credit.** If needed, space is provided for your work. Use the reverse side of the page if necessary (label solutions with the question number) and indicate on the front of the exam that the solution is continued on the reverse side of the page. Be sure that your answer has the proper units.

* Problems without answer choices are fill the blank or provide a solution & answer. For multiple choice questions mark the **best** answer on your Scantron sheet.