

HW for last day of class due via email at noon on Friday May 13

1. Download the “Review for Final Exam” from the course website. Look through it as you study, are there any “equations / relationships you should know” or “sketches” that are not listed? If there are, make a note and bring it to class on Friday 5/13.
2. Write 3 **new** questions about concepts we covered that you think are *most* important. We will divide the topics as follows:

If your last name starts with	Topics
A - C	1.1 Atomic structure and number 1.2 Atomic mass and mole 1.3 Bonding and types of solids
D	1.4 Kinetic molecular theory 1.5 Molecular velocity and energy distribution
E - J	3.1.1 Light as a wave 3.1.2 The photoelectric effect 3.2 The electron as a wave
K - Ma	3.3 Infinite potential well 3.4 Heisenberg uncertainty principle 3.5 Tunneling
Mc - Q	3.7 Hydrogenic atom 4.1 Hydrogen molecule 4.2 Band theory of solids
R	4.4 Electron effective mass 4.5 Density of states 4.6 Statistics 4.7 Quantum theory of metals
S	5.1 Intrinsic semiconductors 5.2 Extrinsic semiconductors
W - Y	6.1 PN junction 6.2 PN junction band diagram 6.7 Junction field-effect transistor 6.9 Light emitting diodes