

AP Chemistry Summer Work

Refer to *Chemistry* by R. Chang, eighth edition

The problems listed below are general review problems for the topic areas listed. You need not do all of the problems listed. Do as many as are necessary for you to have a solid understanding of the topics. (Answers to the even-numbered problems are in the back of your textbook.) I will presume a working knowledge of the topics when class begins in September.

Significant Figures: 1.33-1.36

Dimensional Analysis (a.k.a. Factor-Labeling): 1.37-1.50

Atomic Structure: 2.15-2.16; 2.35-2.36

Nomenclature: 2.55-2.58

Mass: 3.5-3.6; 3.13-3.22; 3.23-3.24

Mass Relationships: 3.45-3.48

Balancing Equations: 3.59-3.60

Stoichiometry: 3.65-3.78; 3.84-3.86; 3.89-3.94

Please pay special attention to the problems listed below. They involve empirical formula determinations. Some involve Empirical Formula from Percent Composition and are review. You should consult Section 3.6 of the textbook for the discussion of Experimental Determination of Empirical Formulas, which is a new topic (i.e., it was not covered in Chemistry). I would advise doing each of the seven problems listed below.

3.43, 3.44, 3.54, 3.119, 3.135 (This one's a bit nasty!), 3.136, 3.137

If you have any questions, please feel free to e-mail me. I'll try to get back to you fairly quickly, although I will be out of town at various points during the summer.