

Reading (#'s refer to chapters and section numbers in Chang unless otherwise indicated)

For Wednesday, Sept. 5: 11.1-11.2(just through drawing chemical structures) and Alkane Chain names Handout

For Thursday, Sept. 6: 6.1- 6.5

For Tuesday, Sept. 11: 6.5, 9.8, 6.6

For Thursday, Sept. 13: 6.6 and Fuel Values Handout.

**Do all in chapter exercises and examples as you do your careful second read through after the material is covered in class.**

Homework Exercises (End of Chapter Study Questions)

These will not be collected. These will help you prepare for the discussion quiz on Wednesday, Sept. 12 and the exam Thursday, Sept. 26. Note that answers to questions with boldface numbers in the text can be found in the appendix. Answers to non-boldface questions will be posted in the [lecture section of the class web site](#):

([http://www.uwosh.edu/faculty\\_staff/gutow/Chem\\_106\\_F07/lecture\\_sched.shtml](http://www.uwosh.edu/faculty_staff/gutow/Chem_106_F07/lecture_sched.shtml)).

Chapter 11: 1 + the following extra problems:

- Do all alkanes have the same % composition?
- Do all alkanes have the same empirical formula?
- The alkanes we have discussed are called linear alkanes. Are the chains actually linear?
- What is the C–C–C bond angle in propane (or any other linear alkane)?
- Name the following linear alkanes:  $C_7H_{16}$ ,  $C_{11}H_{24}$ ,  $C_4H_{10}$ .
- Draw cartoons like figures 11.3 a, b and c of the linear alkane hexane.

Chapter 6: 1-12, **16, 18, 20**, 21-24 (note that the book's use of kJ/mol for a "reaction as written" is sloppy, but common), **26, 29, 30, 32, 34, 38**, 39-45, **46, 54, 55, 57, 62, 66, 71, 72, 80, 84, 88, 94**

Chapter 9: 45, 46, **50**

Fuel Values Handout: Do the boxed exercises.

Suggestions for getting the most out of doing these exercises:

- Remember that these are the suggested minimum set of problems to try.
- Do not look at the answers until you have tried all the problems and spent time struggling with the ones you cannot do.**
- Mark any exercises you get wrong. Review the appropriate chapter sections, talk to your classmates and ask the instructor for help. Try sending questions to the e-mail list.
- Redo all exercises you get wrong without the answers in front of you. Repeat with a minimum of 30 minutes between looking at the answers and trying the problem until you can get them right.
- Do not just look at the answers and say "oh yeah, I understand." You will not be able to reproduce the result on an exam or quiz if you do not do it yourself without looking at the answer.**
- Do extra exercises like those with which you have trouble.