Homework: Chapters 22-24

**Chapter 22**

Review Questions: 1-12 (skip 9)

Paired/ Additional Exercises: 2-10\*, 16, 20-34\*, 40, 42

**Chapter 23**

Review Questions: 1, 4, 6, 8, 11

Paired Exercises: 2-22\*, 28

**Chapter 24**

Review Questions: 1-9

Paired Exercises: 2-8\*, 12-26\*, 30, 36

**Chapter 22-24 Exam Review** (optional, all answers in the back of textbook to check with)

Chapters 22-23, Pg 629 (1-62)

Chapter 24, Pg 696 (1-28)

\* do even problems only

Chapters 22-24 Test Information

* Know and identify all functional groups (including aromatic)
* **Name and draw structures** (both cyclo- and open chain) for alcohols, ethers, thiols, phenols, esters, carboxylic acids, aldehydes & ketones. Structures could be complete Lewis structures, condensed structures or line structures.
* Compare solubility of the aforementioned (underlined above) molecules
* Compare boiling/melting points aforementioned (underlined above) molecules

Remember carboxylic acids or alcohols typically “trump” everyone when it comes to highest

boiling point. Why??

* Identify type of alcohol
* Know the products of alcohol oxidation reactions
* Identify alcohol dehydration reactions
* Know the products of carboxylic acid, aldehyde and ketone reduction reactions (to alcohols)
* Recognize hemiacetals, hemiketals, acetals, ketals – know the difference between these
* What two parts make up an ester?
* What is the reaction for making soap?
* Why does soap clean?

This test will probably have more drawing/naming than test 2.

Again…let me make sure you know…I may use homework questions for test questions!

***Disclaimer: This is by no means a full representation of the exam. I may change/add information as I review the material. This is provided as a guide to help you focus your study time. I am not responsible for your performance on the exam!***