**Organic Chemistry Klein 3rd Edition Recommended Problems**

**Chapter 1**

1.35 – 1.37; 1.39 – 1.40; 1.43 – 1.45; 1.48 – 1.53; 1.55 – 1.58; 1.60; 1.62; 1.64

\*constitutional **isomer** = **same** molecular formula; different connectivity!

\*recall from Chem1A… **isoelectronic** referred to atoms with the **same** number of electrons. Notice the use of the prefix…. “iso”

**Chapter 2**

2.34-2.35; 2.37-2.40; 2.43-2.44; 2.47-2.48; 2.50; 2.53; 2.55; 2.62; 2.64

**Chapter 3**

3.34 – 3.35; 3.37 – 3.40; 3.43-3.44; 3.46 – 3.47

**Chapter 14**

14.33-38; 14.40; 14.46-47; 14.49; 14.57-58; 14.60

**Chapter 4**

4.36 - 4.38

4.40 a, b

4.43

4.47 a

4.50 - 4.51

4.56

**Chapter 5**

5.31

5.32-5.33(remember, don't make this hard - just look for the chiral center(s) and switch the chirality (wedge to dash or vice versa) to give the enantiomer - the rest of the molecule should be unchanged)

5.36

5.38-5.39

5.47

5.50-5.51

5.55

5.62-5.64

**Chapter 8**

8.42-44

8.47-48

8.52-54

8.57-59

8.68

**A couple of the below examples include C-NMR..**. **we will be doing an example Wed.  But C-NMR simply tells you how many unique Carbons are in a molecule - each signal represents a unique C; no splitting**)

15.32

15.35

15.37

15.38

15.42

15.47

15.55

15.57

15.58

**\*Please make sure to complete the second packet of NMRs from our lecture as part of NMR recommended practice.**

**\*\*A great website to find examples of IRs, MassSpecs, and NMRs is** [**https://sdbs.db.aist.go.jp/sdbs/cgi-bin/cre\_index.cgi (Links to an external site.)Links to an external site.**](https://sdbs.db.aist.go.jp/sdbs/cgi-bin/cre_index.cgi)