

## Chemistry 11 – Unit 10—Organic Chemistry

### Unit Outline

Topic	Activity
Introduction to Carbon's Bonding and Organic Compounds	Class introduction to the bonding properties of Carbon and what organic compounds are.
Sources and Uses of Organic Compounds	Class Demonstration of the Destructive Distillation of Coal and short discussion of the sources and the major uses of organic compounds. See page 213 in SW.
Alkanes-Saturated Hydrocarbons	<p>Class introduction to Alkanes, their molecular, structural and condensed structural formulas and ball and stick models. See p. 215-216 in SW.</p> <p>Class introduction to Alkyl Groups. See p. 217 SW.</p> <p>Class explanation of the IUPAC naming (nomenclature) system for substituted alkanes.</p> <p>Do Ex. 2(a-d), 3 (a-d) and 5(a-d) on p. 219-220 of SW.</p> <p>More class explanation of rules for naming. See p. 220-221 in SW.</p> <p>Do Ex. 8 (c, e &amp; f) and 9 (a-e) on p. 221 of SW.</p>
Cycloalkanes	Class introduction to cycloalkanes. See p. 222 in SW.
Alkyl Halides	<p>Class introduction to “halo” groups and naming of alkyl halides. See p. 224 in SW.</p> <p>Do Ex. 17(a-d) and 18 (a, b &amp; d) on p. 225 of SW.</p>
Unsaturated Hydrocarbons (Alkenes and Alkynes)	<p>Class introduction to Alkenes and Alkynes and writing and naming these. See p. 226-230 in SW.</p> <p>Do Ex. 26 (a-e) and 28 (a-d) on p. 230 of SW.</p>
Aromatic Compounds	<p>Class introduction to Aromatic Compounds and their structures. See p. 230-232 in SW.</p> <p>Do Ex. 30 (a-c) and 31 (a-d) on p. 232 of SW.</p>

<b>Topic</b>	<b>Activity</b>
Functional Groups	Class Explanation of Functional Groups and how to recognize the functional groups hydroxyl, carbonyl and carboxyl and the structures of alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amines and amides. See p. 233-240 in SW.  Do class exercise on recognition of types of organic compounds.
(Biochemistry)	Do Tutorial 31—Biochemistry (if time allows)
Review and Test	Class Review of Unit 10—Organic Chemistry  Test on Unit 10—Organic Chemistry