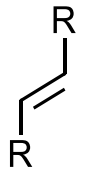
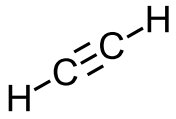
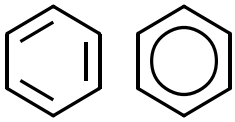
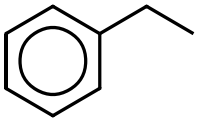
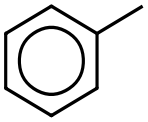
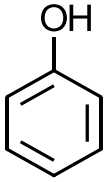
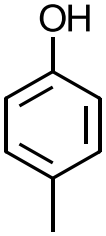
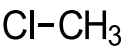
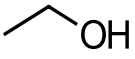
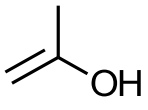
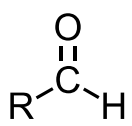
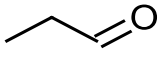
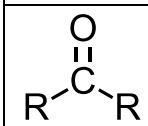
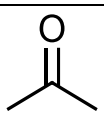
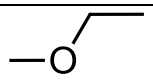
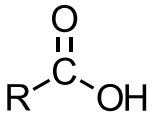
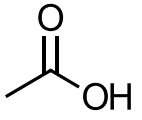
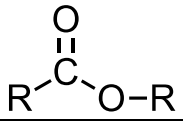
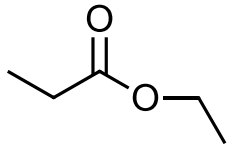
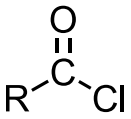
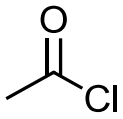
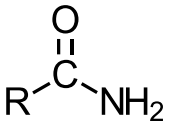
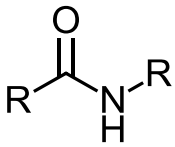
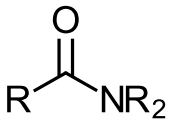
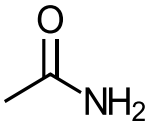
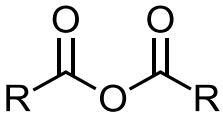
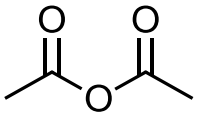
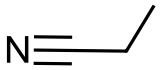
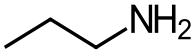
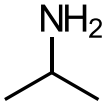
Naming Chemicals 2

Pre-lesson assignment – Textbook page 174-178

You will need to learn to name these functional groups

Structure	Name	Prefix	Suffix	Example
	Alkene		-ene	 Propene
	Alkyne		-yne	 Ethyne
	Arene	Phenyl-	-benzene	 Phenylethane  Methylbenzene
	Phenol		-phenol	4-methylphenol 
-X -Cl -F -Br -I	Haloalkane Chloroalkane Fluoroalkane Bromoalkane Iodoalkane	 Chloro- Fluoro- Bromo- Iodo-		 Chloromethane
-OH	Alcohol	Hydroxy-	-ol	 Ethanol  2-Hydroxypropene
-CHO 	Aldehyde		-al	 Propanal
	Ketone		-one	 Propanone

R-O- CH_3-O-	Ether	(alkyl)-oxy- Methoxy		 Methoxyethane
-COOH 	Carboxylic acid	Carboxy-	-oic acid	 Ethanoic acid
-COO-R -COO-C_2H_5 	Ester	(Alkyl) Ethyl	-oate	 Ethyl propanoate
	Acid chloride		-oyl chloride	 Ethanoyl chloride

  	Amide (Primary) (Secondary) (Tertiary)		-amide	 Ethanamide
	Acid anhydride		-oic anhydride	 Ethanoic anhydride
-CN	Nitrile		-Nitrile	 Propanenitrile
$-NH_2$ -NHR $-NR_2$	Amine	Amino-	-amine	 Propylamine  2-aminopropane

Make notes on naming chemicals with functional groups

Use the following questions as guidance

1. Briefly explain how alkanes can be named.
2. Briefly explain how to name a chemical with functional groups.

Now complete the summary questions (green box) on each of the pages you studied (pgs. 173, 178, 181).