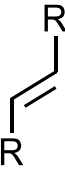

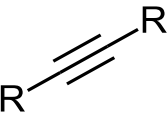
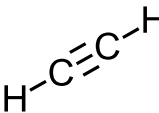
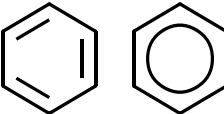
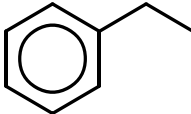
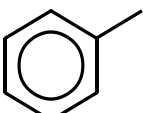
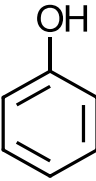
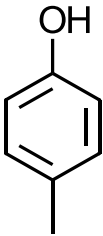
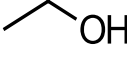
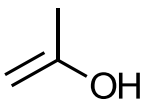
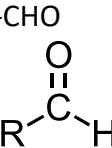
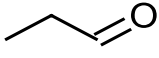
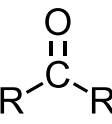
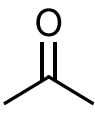
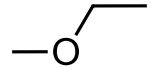
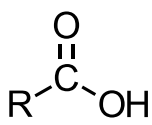
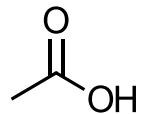
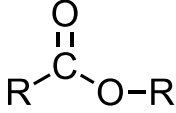
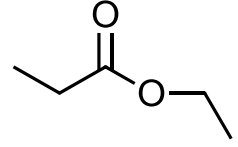
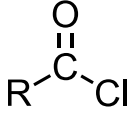
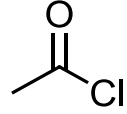


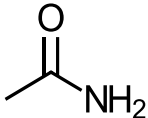
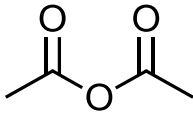
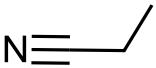
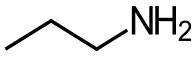
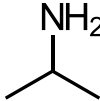
Naming Chemicals 2

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-		Cl-CH ₃ Chloromethane
-OH	Alcohol	Hydroxy-	-ol	 Ethanol  2-Hydroxypropene
	Aldehyde		-al	 Propanal
	Ketone		-one	 Propanone

R-O- $\text{CH}_3\text{-O-}$	Ether	(alkyl)-oxy- Methoxy		 Methoxyethane
-COOH 	Carboxylic acid	Carboxy-	-oic acid	 Ethanoic acid
-COO-R $\text{-COO-C}_2\text{H}_5$ 	Ester	(Alkyl) Ethyl	-oate	 Ethyl propanoate
	Acid chloride		-oyl chloride	 Ethanoyl chloride

$\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{NH}_2 \\ \\ \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{NH}-\text{R} \\ \\ \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{NR}_2 \end{array}$	Acid amide		-amide	 Ethanamide
$\begin{array}{c} \text{O} \quad \text{O} \\ \parallel \quad \parallel \\ \text{R}-\text{C}-\text{O}-\text{C}-\text{R} \end{array}$	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).