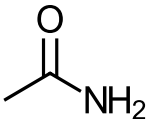
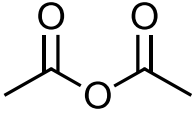
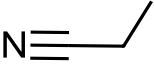
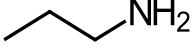
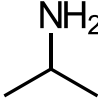


Naming Chemicals 2

Pre-lesson assignment – Textbook page 168-172

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
-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 ₂ 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
$\begin{array}{c} \text{O} \quad \quad \text{O} \\ \parallel \quad \quad \parallel \\ \text{R}-\text{C} \quad \text{O} \quad \text{C}-\text{R} \\ \backslash \quad / \\ \text{O} \end{array}$	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.