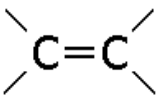
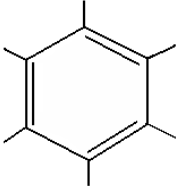
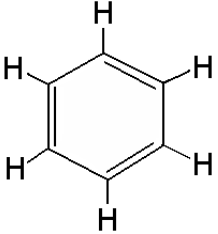
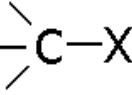
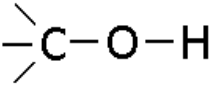
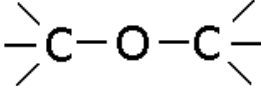
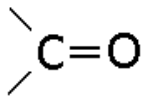
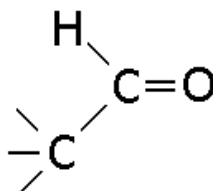
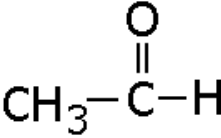
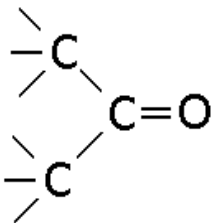
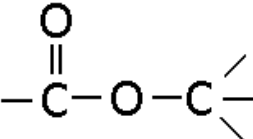
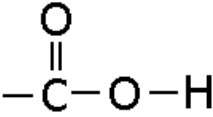
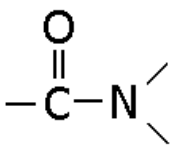
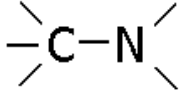
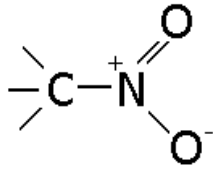
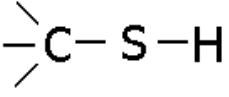
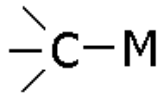


FUNCTIONAL GROUPS and Their Names

Compound type	Functional group	Simple Example	Name ending
Alkene (double bond)		CH₃CHCH₂ Propene	<i>-ene</i>
Alkyne (triple bond)	-C≡C-	CH₃CCH Propyne	<i>-yne</i>
Arene (aromatic)		 Benzene	None
Halide	 X = F, Cl, Br, I	CH₃CH₂I Iodoethane or Ethyl Iodide	None
Alcohol		CH₃CH₂OH Ethanol	<i>-ol</i>
Ether		CH₃CH₂O CH₂CH₃ Ethoxyethane or Diethyl ether	<i>ether</i> *if the two carbon groups on the oxygen are different groups then: name the shorter side with <i>-oxy</i> ending + larger side *if same then: di(group name)+ ether
Carbonyl Bond		This is not a functional group. It is the name of a <u>type</u> of a bond found in many functional groups.	
Aldehyde		 Ethanal	<i>-al</i>

Ketone		$\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_3$ 2-Propanone	-one
Ester		$\text{CH}_3\overset{\text{O}}{\parallel}{\text{C}}-\text{OCH}_2\text{CH}_3$ Ethyl Ethanoate	-oate
Carboxylic acid		$\text{CH}_3\text{CH}_2\text{CH}_2\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$ Butanoic acid	-oic acid
Amide		$\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{NH}_2$ Ethanamide	-amide
Amine		$\text{CH}_3\text{CH}_2\text{NH}_2$ Ethylamine	-amine
Nitrile	$-\text{C}\equiv\text{N}$	CH_3CN Ethanenitrile	-nitrile
Nitro		$\text{CH}_3\text{CH}_2\text{NO}_2$ Nitroethane	Use nitro as a prefix
Thiols		CH_3-SH methyl thiol	Thiol
Organometallic	 M = Metal	CH_3-Li Methyl lithium	None