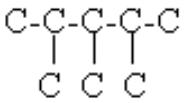
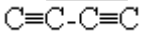
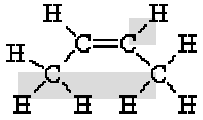
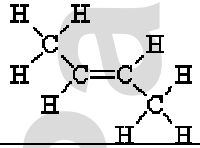
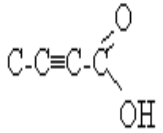
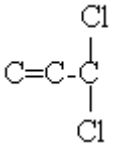
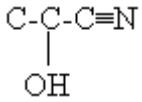
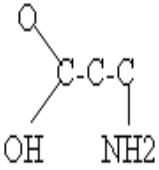
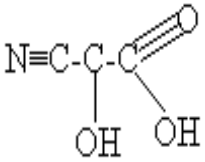
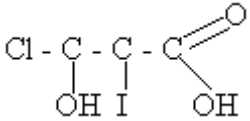
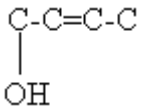
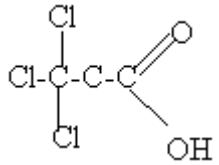
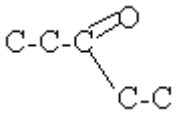
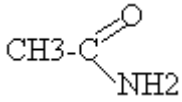
CARBON CHEMSITRY CHART

BY: SAHIL BEHAL

Alkane ***(C_nH_{2n+2})***	***Alkene (C_nH_{2n})***	**Alkyne**	**Haloalkene** ***(RX)***	**Alkanol** ***(R-OH)***	**Amines** ***(RNH_2)***	**Ethers** ***(R-OR)***
• Bonded to each other with single bond • bond angles of 109.5^o • **SUFFIX:** ***ANE***  2,3,4-trimethylpentane • Non-Polar • London Dispersion Forces	• Double bond • **SUFFIX: ENE**  • but-1,3-diene *cis-2-butene:*  *trans-2-butene:* 	• C_nH_{2n-2} • triple bond • **SUFFIX:** ***YNE***  • 2-yne-butanoic acid • Non Polar • London Dispersion Forces	• $C_nH_{2n+1}X$ • halogenocompounds • haloalkene  • 1dichloropropene • Polar • Dipole-Dipole	• $(C_nH_{2n+1})OH$ • alcohols • alkanols • prefix: hydroxy • suffix: ol  2-Hydropropanoni-tile • Polar • Hydrogen Bond	• NH_2 • **SUFFIX:** ***AMINE*** • **PREFIX:** ***AMINO-***  3-amino-propanoic acid • Polar • Hydrogen Bond	• Alk-oxy-alkane C-O-C-C methoxy ethane • Non Polar • London Dispersion Forces

Nitriles ***(RCN)***	**Alkanal** ***(RCHO)***	**Alkanone** 	**Alkanoic Acid** ***(RCOOH)***	**Esters** ***(RCOOR')***	**Amides (RCONH2)**
• -C≡N • SUFFIX: NITRILE • PREFIX: CYNO  3-cyno-2 hydroxypropanoic acid • Polar • Dipole-Dipole	• alkalydes • alkan**al** • **PREFIX: OXO**  3,3-dichloro-3=hydroxyl-2-iodopropanal • Polar • Dipole-Dipole	• **PREFIX: OXO** • **SUFFIX: ONE** • ketones  • 3-hydroxy-3-ene-1-butan-2-one • Polar • Dipole-Dipole	• carboxylic acid • alkanoic acid  3,3,3,-trichloropropanoic acid • Polar • Dipole-Dipole • Hydrogen Bond	 methyl propanoate • Polar • Dipole-Dipole	 ethanamide • Polar • Dipole-Dipole