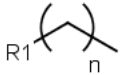
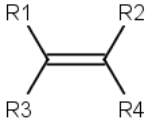

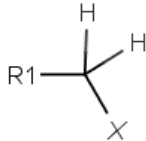
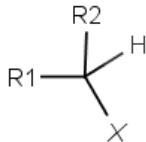
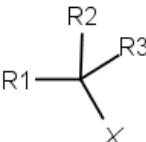
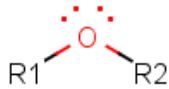
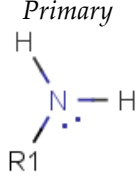
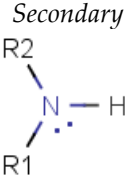
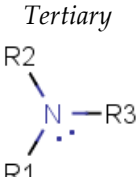
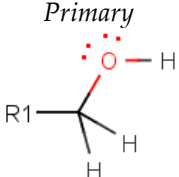
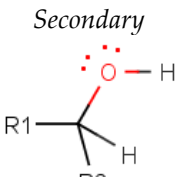
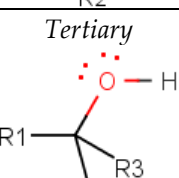



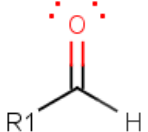
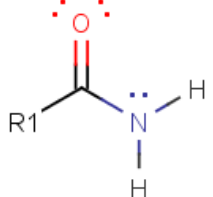
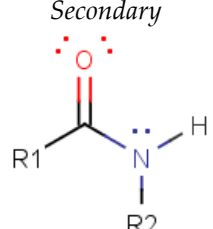
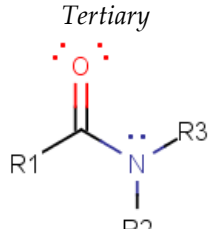
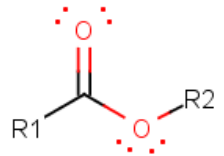
## Aliphatic functional groups & organic chemistry.

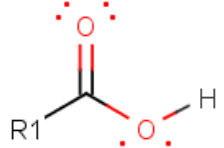
Ryder Whittaker Hawkins | SCH3UE | Ms. Pall | Colonel By S.S

*in order of increasing precedence:*

Name	Structure	Prefix	Suffix	Hybridisation	IMFA	Reactions
Alkane		alkylalkane	alkane	sp <sup>3</sup>	London	Combustion Addition Cracking Isomerisation
Alkene		alkenylalkane	alkene	sp <sup>2</sup>	London	Addition Polymerisation Oxidation
Alkyne		alkynylalkane	alkyne	sp	London	Various additions Cycloaddition Oxidation
Haloalkane	<i>Primary</i> 	haloalkane	alkyl halide	sp <sup>3</sup>	Dipole-dipole	Substitution Elimination
	<i>Secondary</i> 					
	<i>Tertiary</i> 					

Ether		alkoxyalkane		$sp^3$	Dipole-dipole	Addition Ether cleavage
<i>Name</i>	<i>Structure</i>	<i>Prefix</i>	<i>Suffix</i>	<i>Hybridisation</i>	<i>IMFA</i>	<i>Reactions</i>
Amine	<i>Primary</i> 	aminoalkane	alkanamine	$sp^3$	H-bonds	
	<i>Secondary</i> 				H-bonds	
	<i>Tertiary</i> 				Dipole-dipole	
Alcohol	<i>Primary</i> 	hydroxyalkane	alkanol	$sp^3$	H-bonds	Deprotonation Nucleophilic substitution Dehydration Oxidation Esterification
	<i>Secondary</i> 					
	<i>Tertiary</i> 					
Ketone		oxoalkane ketoalkane	alkanone	$sp^2$	Dipole-dipole	Nucleophilic addition Electrophilic addition

						
<i>Name</i>	<i>Structure</i>	<i>Prefix</i>	<i>Suffix</i>	<i>Hybridisation</i>	<i>IMFA</i>	<i>Reactions</i>
Aldehyde		aldoalkane formylalkane	alkanal	sp <sup>2</sup>	Dipole-dipole	Nucleophilic addition Reduction Oxidation
Nitrile	R1—C≡N:	cyanoalkane	alkanenitrile	sp carbon sp nitrogen	Dipole-dipole	Hydrolysis, Reduction, Nucleophilic addition
Amide	<i>Primary</i> 	carbamoylalkane	alkanamide	sp <sup>2</sup> carbon sp <sup>3</sup> nitrogen sp <sup>2</sup> oxygen	H-bonds Dipole-dipole	Dehydration Reduction
	<i>Secondary</i> 				H-bonds Dipole-dipole	
	<i>Tertiary</i> 				Dipole-dipole	
Ester		alkoxycarbonylalkane	alkyl alkanoate	sp <sup>2</sup> carbon sp <sup>2</sup> , sp <sup>3</sup> oxygen	Dipole-dipole	Nucleophilic substitution (Saponification) Reduction

Carboxylic acid		carboxyalkane	alkanoic acid	sp <sup>2</sup> carbon sp <sup>2</sup> , sp <sup>3</sup> oxygen	Dipole- dipole H-bonds	Reduction Esterification
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