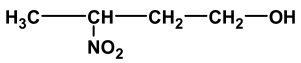
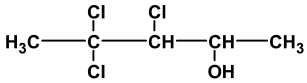
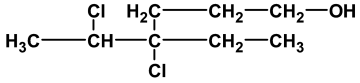
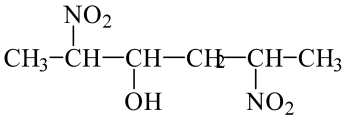
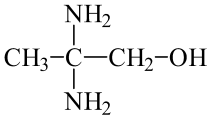
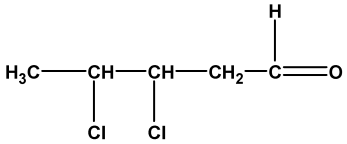
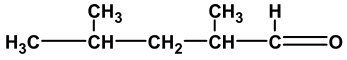
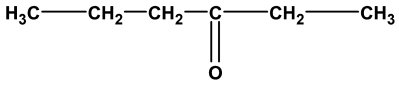
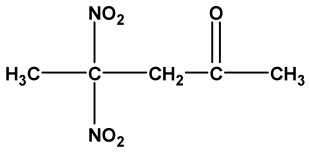
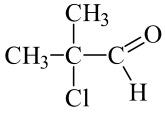
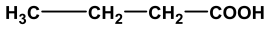
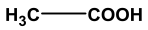
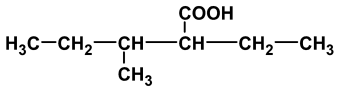
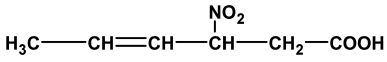
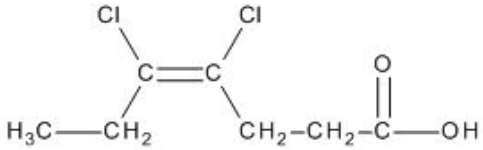
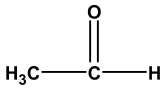
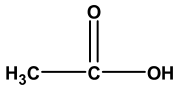
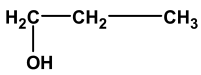
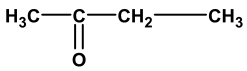
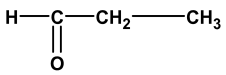
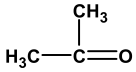
SCH4U1
OC04

Name:
Date:

FUNCTIONAL GROUPS I - WORKSHEET

Name or draw the following compounds:

	Chemical structure	IUPAC Name
1		3-nitro-1-butanol
2		3,4,4-trichloro-2-pentanol
3		4,5-dichloro-4-ethyl-1-hexanol
4		2,5-dinitro-3-hexanol
5		2,2-diaminopropanol
6		3,4-dichloropentanal
7		2,4-dimethylpentanal
8		3-hexanone
9		4,4-dinitro-2-pentanone
10		2-chloro-2-methylpropanal
11a		butanoic acid

11b		ethanoic acid
11c		methanoic acid
12		2-ethyl-3-methylpentanoic acid
13		3-nitro-4-hexenoic acid or 3-nitrohex-4-enoic acid
14		*cis*-4,5-dichloro-4-heptenoic acid
	For each of the following, name the functional group and state the type of organic compound	
15a		ethanal Functional Group: carbonyl Type: aldehyde
15b		ethanoic acid Functional Group: carboxyl (carbonyl and hydroxyl) Type: carboxylic acid
15c		1-propanol Functional Group: hydroxyl Type: alcohol
15d		2-butanone Functional Group: carbonyl Type: ketone
15e		propanal Functional Group: carbonyl Type: aldehyde
15f		propanone (common name: acetone) Functional Group: carbonyl Type: ketone