ALCOHOLS, ETHERS, ALDEHYDES, and KETONES

Complete on your own and pass in at the end of the lesson

- 1. In the following structures there is one example from each of the four classes (families) of compounds.
 - a) circle the functional group

	class	name
. CH ₃ C CH ₂ - CH ₃	Ketone	butanone (ethy/methy/ ketone)
. CH ₃ - CH ₂ - CH ₂ OH	alcohol	(propyl alcohol) -methoxy propane
. CH ₃ (-O) CH ₂ - CH ₂ - CH ₃	ether	methy/propy/ & ether
. CH ₃ - CH ₂ - C - H	aldehyde	propanal
.Н ₃ С - СН ₃	Ketone	(dinethy / Ketone) (acetone)
5. CH ₃ -CH (OH)	alcohol (diol)	1,1-ethanediol
7. CH ₃ (C-H)	aldehyde	ethanal (acetaldehyde)
8. CH ₃ - CH ₂ O - CH ₃	ether	ethylmethyl ether methoxyethane
9. CH ₃ (OH)	alcohol	(methyl alcohol)
10. CH ₃ - CH ₂ -	CH3 ether	butylethyl other 1-ethoxybu
11. CH ₃ -CH-CH OH	alcohol	3-methyl-2-butanol
CH ₃ C CH - CH ₃	ketone	3-chloro-2-butanone
13. CH ₃ -(CH ₂) ₃ O CH ₂ -CH ₃	ether	butylethyl ether ethory au
14. CH ₃ - (CH ₂) ₄ (C-H	aldehyde	hexanal

15. CH ₃ -CH - CH - CH ₂ -OH CH ₃ OH	alcohol (diol)	3-methy 1-1, 2-butanedial
16. CH ₃ - CH - CH ₂ C CH ₃	Ketone	4-bromo-2-pentanone
17. CH ₃ - (CH ₂) ₅ O (CH ₂) ₅ - CH ₃	ether	dihexyl ether
18. CH ₃ - CH ₂ - O CH ₃	ether	dihexyl ether methoxy ethane ethyl methyl ether
19 HO- CH ₂ - CH ₂ - CH ₃	alcohol	1-propanol (propylalcohol)
20. (H - C) CH ₂ - CH - CH ₅ CH ₃	aldehyde	3-methy/butanal

2. Determine the class of compound, draw the functional group and give the structural formulas of these compounds

٠,		class	functional group	structural formula
1.	3-hexanone	Ketone	0=0	-6-2-2-6-6-
	butylpropyl ether propoxy butane	ether	-0-	6-6-6-6-6-6-
	3,3 - difhiorobutanal	aldehyde	-c-H	-c-c-c-H
4.	3,4-dichloro-2-butanone	Ketone	-C -	CI - C - C - C - C -
5.	1,2,4-buranetriol	alahol	-oH	OH OH OH -C-C-C-C-
6.	2,2 - dichloroethanal	aldehyde	-C-H	c1-c-c-l+
	dibutyl ether -butoxybutane	ether	-0-	
	. 3,3-dimethylpentanal	aldehyde	-C-H	-c-c-c-c-H