	Chemistry	Name:	
	Section	FUNCTIONAL GROUPS I WS	Date:

Directions (1-8): For *each* statement or question, choose the word or expression that, of those given, best completes the statement or answers the question.

1	An organic compour R-OH would have a	nd with a general formula name ending in	7 The molecule CH_3 -C-CH ₃ O
	(1) -al (2) -ol	(3) -one (4) -ole	is a member of the class of organic compounds called
2	Which class of compounds has the general formula R-O-R'?		(1) ethers(3) alcohols(2) ketones(4) aldehydes
	 (1) esters (2) alcohols 	(3) ethers(4) aldehydes	8 Which is the structural formula for 2-propanol?
3	· · · · · · · · · · · · ·		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	(1) acid(2) ester	(3) ether(4) alcohol	
4	4 Which is the general formula for an aldehyde?		(2) H H H (4) H H H H H - C - C - C - H H - C - C - C - C - OH H OH H H OH H
	(1) O R-C-H	(3) O R-C-O-H	н о́н н́ н́ о́н н́
	(2) R-OH		
5	Which general formu	la represents a ketone?	
	(1) O R-C-O-R'	(3) O R-C-O-H	
	(2) R-OH		
6	6 Which functional group is found in all organic acids?		
		(3) H -C=O	
	$(2) H \\ -C -OH \\ H$	(4) O "-C-OH	

Structural Isomerization:

Identify each of the following functional groups and then draw its structural formula.

1. CH ₃ COOH	6. CH ₃ CH(OH)CH ₃
2. CH ₃ COCH ₃	7. CH ₃ CH ₂ COOH
3. CH ₃ CH ₂ OH	8. CH ₃ CH ₂ COOCH ₃
4. CH ₃ CH ₂ OCH ₃	9. CH ₃ CH ₂ COCH ₃
5. CH ₃ CH ₂ CHO	10. CH ₃ OCH ₃