



Chem!stry Class:

Name: ()

Date: / /

Naming Alcohols and Carboxylic Acids - Macroconcept: Systems

• Study the structures and names of the alcohols and carboxylic acids shown below and then determine the rules for naming these types of compounds:

H H-C-O H H	H H H H-C-C-C-O I I I H H H H	H H O H H H H-C-C-C-C-H H H C H H H H H
Methanol	Propan-1-ol	3-methylpentan-2-ol
H O H-C-C H O-H	H H O H-C-C-C H H O-H	H - O - H H - O - H H - O - O - H H - O - O - H H - O - O - H
Ethanoic acid	Propanoic acid	2-methylbutanoic acid

Rules for naming	alcohols:	
Rules for naming	carboxylic acids:	

• For Class Discussion: In what different ways does a naming system for organic compounds aid Chemists in their work? In which other areas of science are systems for naming objects or phenomena of value? How could science possibly evolve in the absence of conventional naming systems?

• Now apply the rules that you have constructed to name the following alcohols and carboxylic acids:

H H H-C-C-O H H H	H H O H H-C-C-C-H H H H	H H H H C H H C -C - C - O H H H H
a)	b)	c)
H H O H H 	H H H H H H H H H H H H H H H H H H H	H H H H H H C C C H H C C C H H H H H H
d)	e)	f)
О Н—С О—Н	H H H O H-C-C-C H H H O-H	H H H H C O H-C-C H H O-H
g)	h)	i)
H H H O H C H C O H H H H H H H H H H H	H H H H O H-C-C-C-C-C H H H H O-H	H H H H H C H O H - C - C - C - C H H H H O - H
j)	k)	1)

• Scan the QR code given below to view the answers to this assignment.



http://www.chemist.sg/organic_chem/worksheets/nomenclature/name_alcohols_acids_ans.pdf