

Chem!stry

Name: ()

Class:

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:

<p><i>Methanol</i></p>	<p><i>Propan-1-ol</i></p>	<p><i>3-methylpentan-2-ol</i></p>
<p><i>Ethanoic acid</i></p>	<p><i>Propanoic acid</i></p>	<p><i>2-methylbutanoic acid</i></p>

- Rules for naming alcohols:

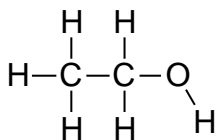
.....
.....
.....

- Rules for naming carboxylic acids:

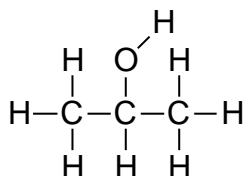
.....
.....
.....

- **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*?

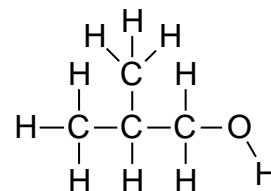
- Now apply the rules that you have constructed to name the following alcohols and carboxylic acids:



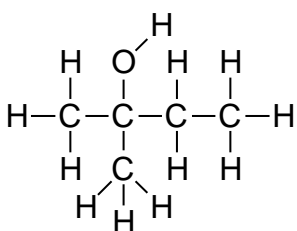
a)



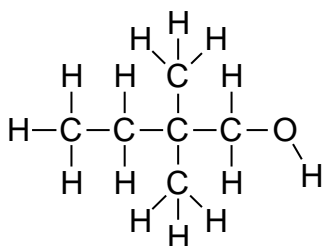
b)



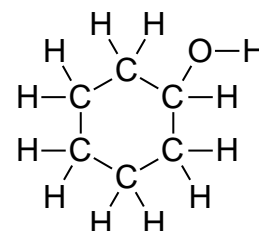
c)



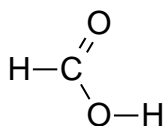
d)



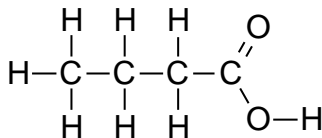
e)



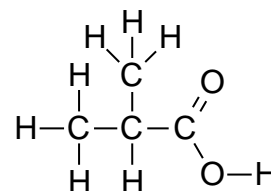
f)



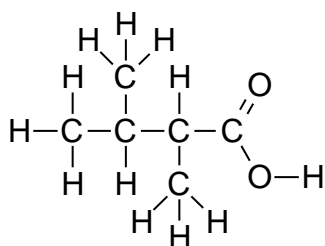
g)



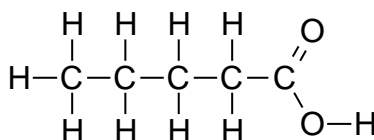
h)



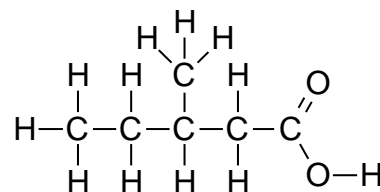
i)



j)



k)



l)

- 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