

Name: _____

Blk: _____ Date: _____

CHEMISTRY 11
Organic Chemistry
Lesson #5

The 8 Functional Groups Continued.

In the previous lesson we discussed how to name an alcohol. In this lesson we will learn will learn how to name _____ and _____.

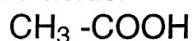
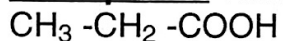
Rules for naming an ORGANIC ACID:

Recall that an organic acid is a hydrocarbon that ends in a -COOH group.

1.

2.

Example 1: Name the following organic acids:



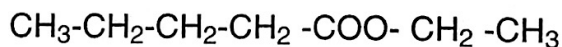
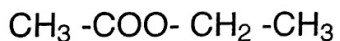
Rules for naming an ESTER:

Recall that an ESTER is a hydrocarbon with a -COO in backbone

1.

2.

Example 2: Name the following esters:



ESTER FORMATION:

Combining an _____ () with an _____ ()
in the presence of an INORGANIC ACID such as _____ or
_____ forms an ESTER and WATER

Example 3:

Example 4: Show the skeletal equation for the formation of the following esters in the presence of hydrochloric acid. Include the name for the alcohol and organic acid.

a. **Ethyl propanoate**

b. **butyl butanoate**

c. **methyl octanoate**

HOMEWORK: Exercises 34-36