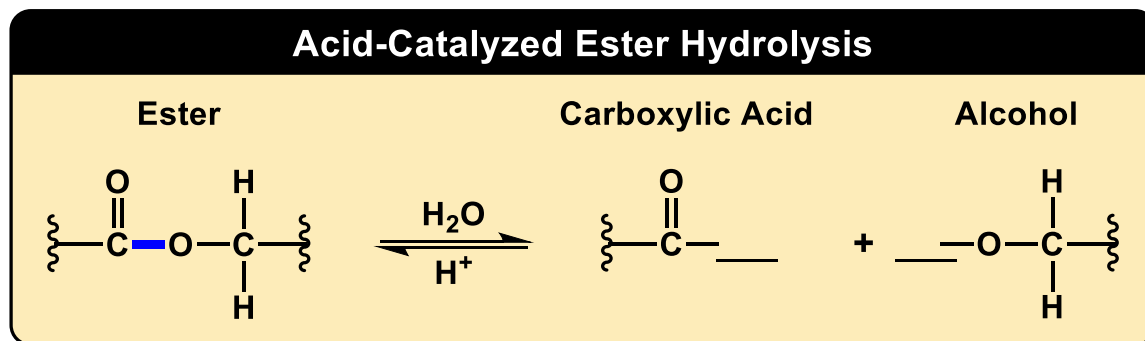
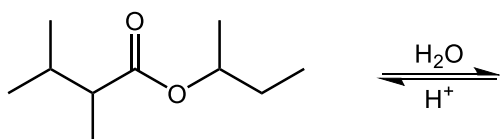


### CONCEPT: ESTER REACTIONS: ACID-CATALYZED HYDROLYSIS

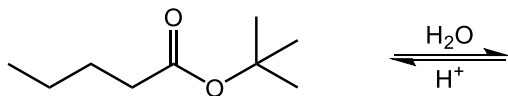
- Under this reaction an ester is \_\_\_\_\_ into a carboxylic acid and an alcohol in acidic medium.
  - Hydrolysis Reaction:** a reaction that breaks down a molecule through reaction with \_\_\_\_\_.
    - The carbonyl carbon gains an \_\_\_\_\_ and the oxygen gains \_\_\_\_\_ hydrogen atom.



**EXAMPLE:** Draw skeletal formulas for the products of the following reaction.



**PRACTICE:** Write a common name for the carboxylic acid produced in the following reaction.



a) Oxalic acid

b) Valeric acid

c) Butyric acid

d) Malonic acid