

WORKSHEET #1

Detergents, Soaps, and Fat: The Love Triangle

Name: _____ Class _____ Date _____

Soaps and detergents were originally created by boiling lye with animal fat and the alkali caustic soda. Interestingly enough, cleaning products were one of the earliest chemical processes used for the production of commercial products.

Below you will find three diagrams of a soap, fat, and detergent molecule. Using the keyword list, please label each of the models seen below.

Keywords:

Synthetic Surfactant

Carboxyl Group

Unsaturated Fatty Acid

Three Fatty Acids

Glycerol

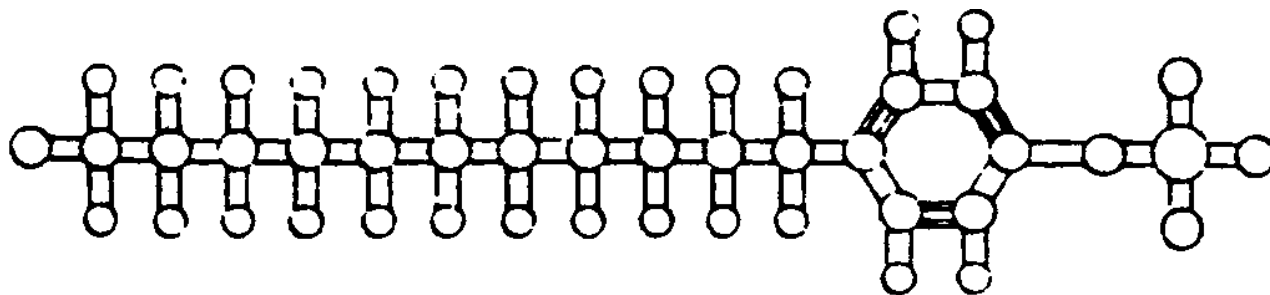
Hydrophilic Polar Group

Fatty Acid

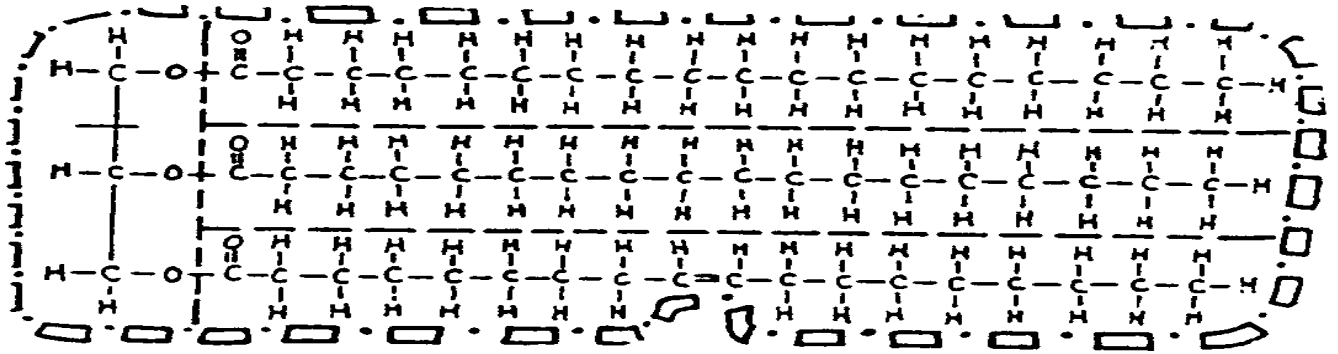
Hydrophobic Non-Polar Group

Saturated Fatty Acid

Detergent:



Fat:



Soap:

