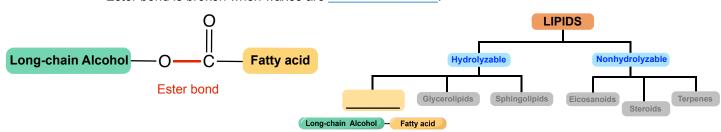
CONCEPT: WAXES

- Waxes: simple lipids composed of a long-chain _____ and a long-chain _____ acid.
 - □ Fatty acid and alcohol are attached by an ______bond.
 - Ester bond is broken when waxes are



- Waxes possess water _____ properties.
 - $\hfill\Box$ Form _____ coatings on feathers of birds and leaves of plants.

EXAMPLE: Provide a structure of beeswax, containing myricyl alcohol (CH₃(CH₂)₂₉OH) and palmitic acid.

- STEP 1: Draw structure of alcohol (condensed) and fatty acid. Place ____ of alcohol next to _____ group of fatty acid.
 - □ Instead of OH on alcohol, write ___. □ Do ____ draw OH on fatty acid.

- STEP 2: Form an _____ bond.
 - □ Draw a bond between O of alcohol and carbonyl C of fatty acid.

PRACTICE: Structure of component of spermaceti wax is given below. If it gets hydrolyzed, draw structures of molecules it would produce.