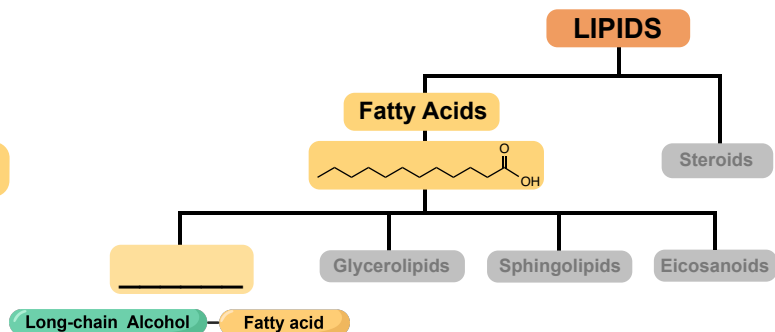
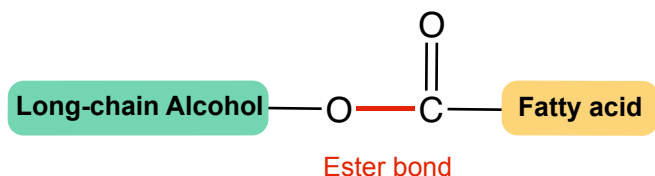


CONCEPT: WAXES

- **Waxes:** simple lipids composed of a long-chain _____ and a long-chain _____ acid.
 - Fatty acid and alcohol are attached by an _____ bond.



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

EXAMPLE: Provide a structure of beeswax, containing myricyl alcohol ($\text{CH}_3(\text{CH}_2)_{29}\text{OH}$) 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.