Lipids

Nick, Joey, Colby, Ava

What is a Lipid?

- A Lipid is any of a class of organic compounds that are fatty acids or their derivatives and are insoluble in water but soluble in organic solvents. They include many natural oils, waxes, and steroids.

Examples of Lipids

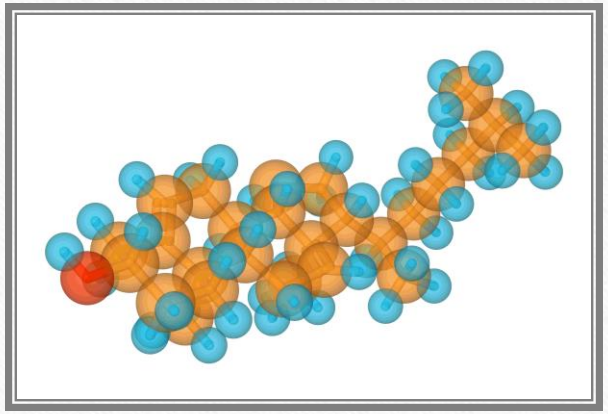
- Butter
- Oils
- Nuts
- Chocolate
- Yolk
- Meat (the fat)

What Roles do Lipids Play

- 1. plasma membranes
- 2. insulation
- 3. protection
- 4. energy source
- 5. water-proofing

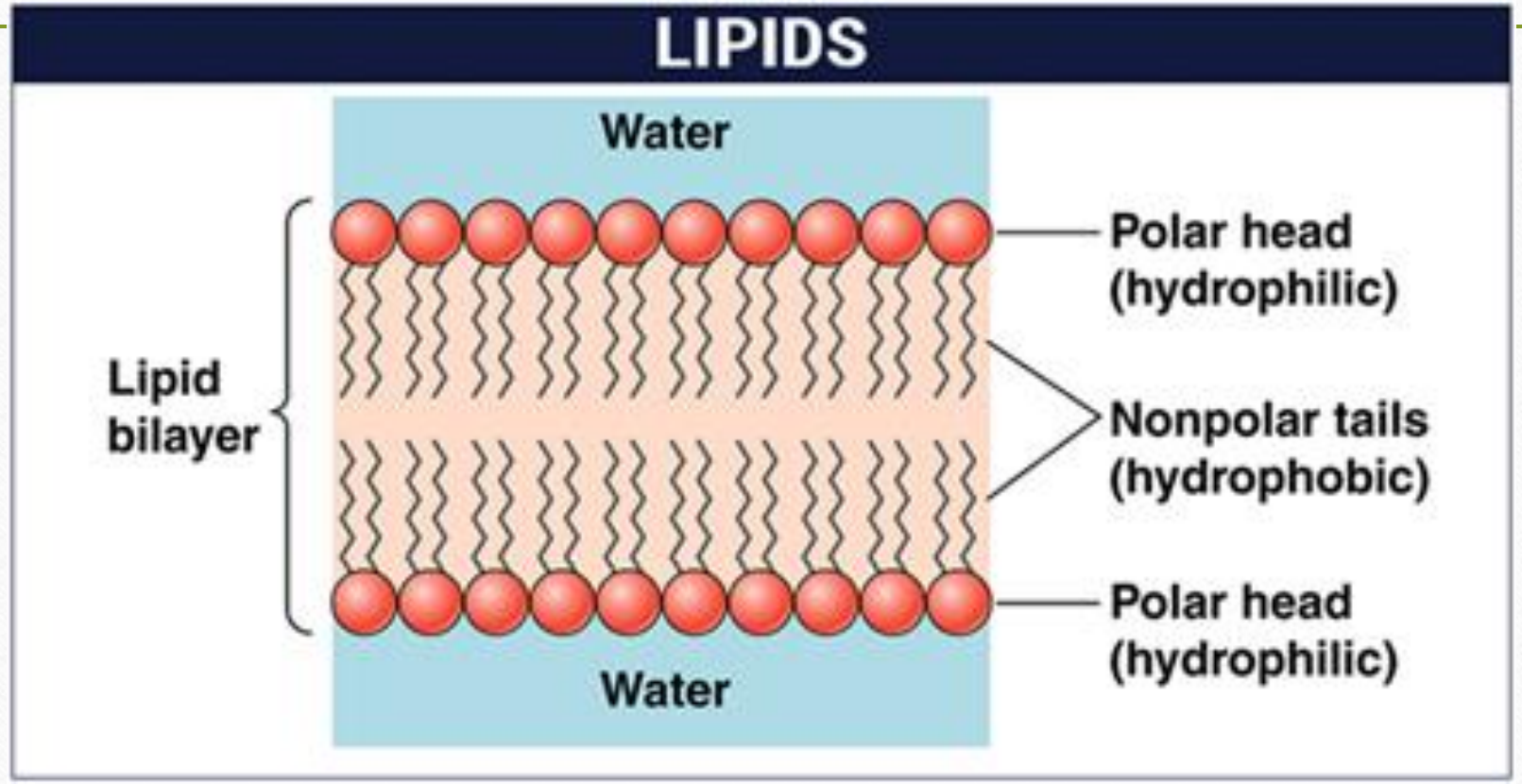
Facts

- Lipids are nonpolar (they do not dissolve in water)
- The H:O ratio in lipids is higher than in carbohydrates
- Examples of lipids are body fat, cell membranes, and testosterone



Example of Lipid Molecule

Structure


LIPIDS
Water
Lipid bilayer
Polar head (hydrophilic)
Nonpolar tails (hydrophobic)
Polar head (hydrophilic)
Water