

Lipids

Name _____

Date _____

We just learned about lipids so let's practice our knowledge!

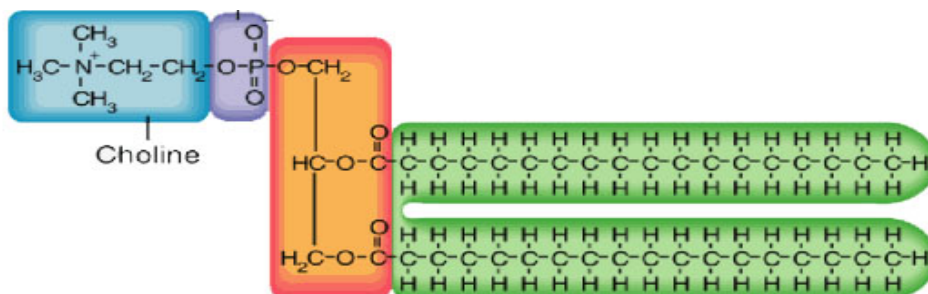
1. Fill in the blank. Words may be used more than once!
 - a. Cell **membranes** are made up of a bilayer of **phospholipids**.
 - b. Fish, nuts, and oils are some of the common foods that contain **fatty acids**.
 - c. A(n) **lipid** is a fat soluble organic molecule that serves multiple functions in the body.
 - d. Testosterone is an example of a(n) **steroid**.
 - e. The chemical structure of a phospholipid can be distinguished from the other lipids by the presence of a(n) **phosphate group**.
 - f. **Wax** is one of four types of lipids.

Wax
Fatty Acid(s)
Phospholipid(s)
Steroid(s)
Lipid(s)
Membrane(s)
Phosphate Group

2. Short-answer:
 - a. Describe the chemical structure of a steroid molecule.

A steroid is made up of ringed carbon chains linked together.

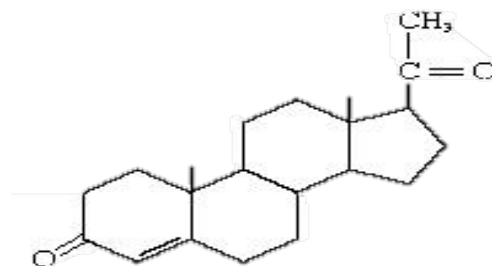
- b. Label the hydrophobic and hydrophilic portions of the following phospholipid:



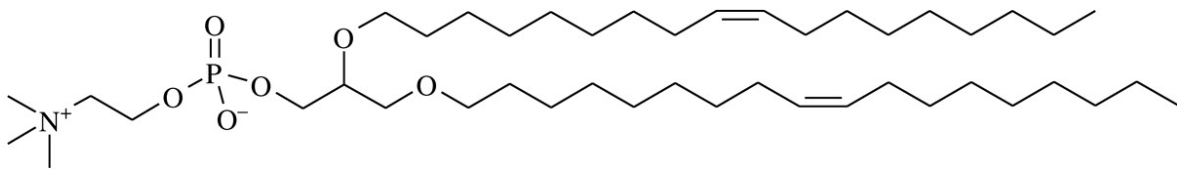
Hydrophilic

Hydrophobic

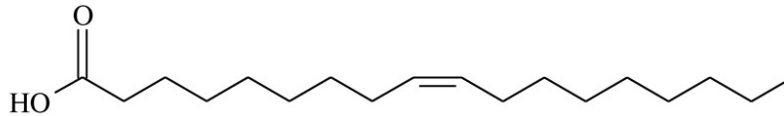
3. Identify what type of lipid each of the following molecules is.



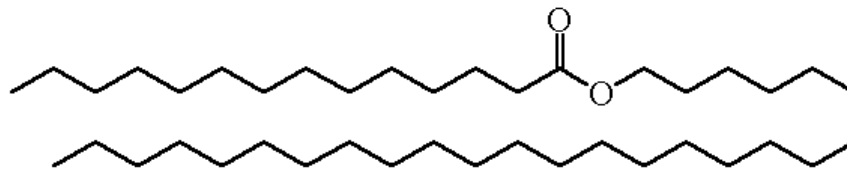
Steroid



Phospholipid



Fatty Acid



Wax

4. Give 1 reason why lipids are important to humans.

Energy source, membrane component, hormones

5. On a separate sheet of paper, draw 2 examples of lipids that can be found in nature.