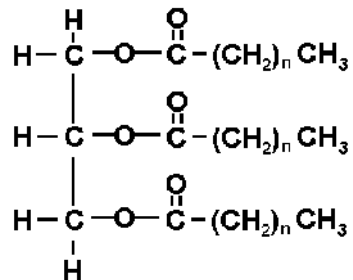
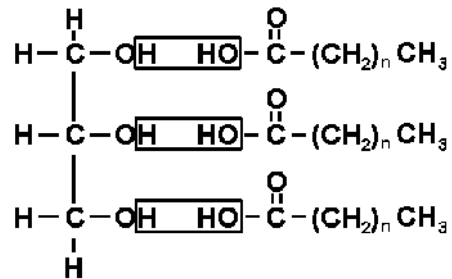


## LIPIDS

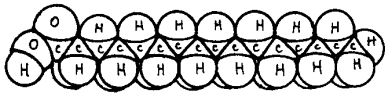
### General Characteristics:

### Building Blocks:

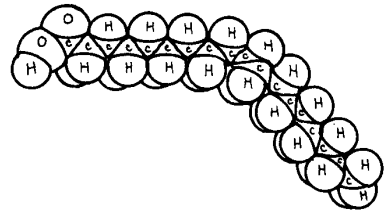


**Fats:**

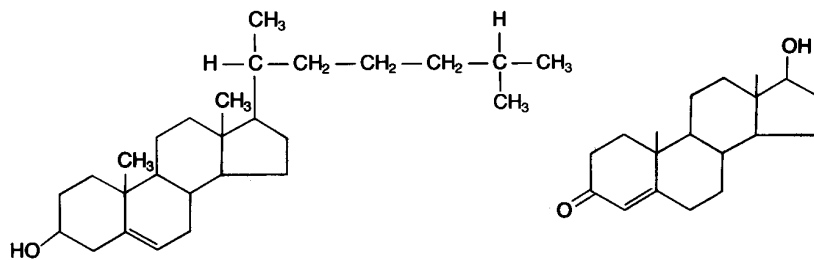
**Saturated:**



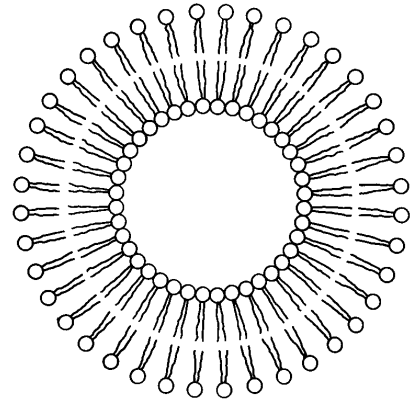
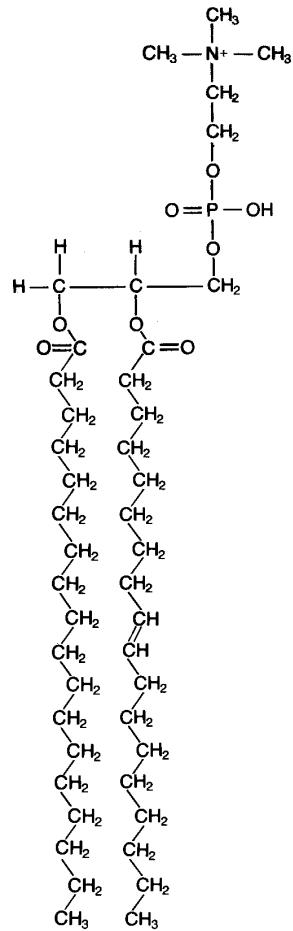
**Unsaturated:**



**STEROIDS:**



## PHOSPHOLIPIDS:



## QUESTIONS:

1. Why are lipids insoluble in water?

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2. Indicate if each of the following is true of a **F**at, **P**hospholipid, or a **S**teroid.

\_\_\_\_\_ Consists of glycerol and three fatty acids

\_\_\_\_\_ Energy source

\_\_\_\_\_ Cushions and insulates

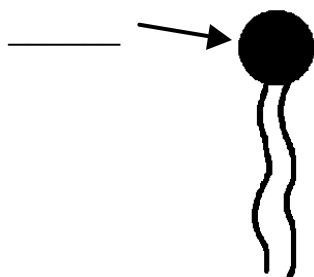
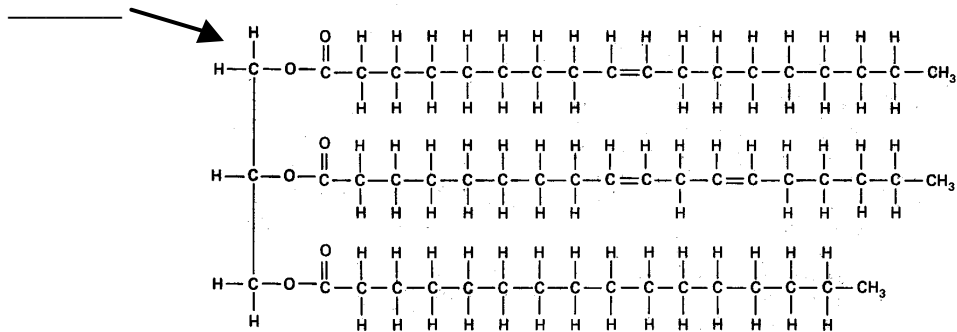
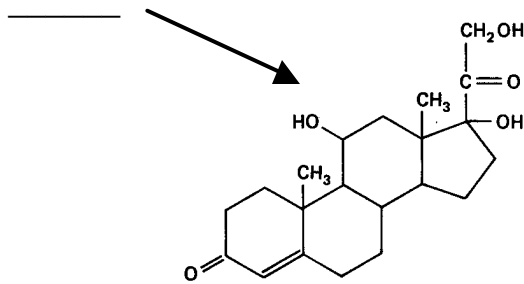
\_\_\_\_\_ Consists of glycerol, 2 fatty acids, and a phosphate group

\_\_\_\_\_ Triglycerides

\_\_\_\_\_ Part of the molecule is hydrophilic and the other part is hydrophobic

\_\_\_\_\_ Major component of cell membranes

\_\_\_\_\_ Consists of four fused carbon rings – three 6-sided rings and one 5-sided



3. List three importances of cholesterol.

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4. Indicate if each of the following is true of **S**aturated or **U**nsaturated fats.

\_\_\_\_\_ 1 or more double bonds

\_\_\_\_\_ Usually solid at room temperature

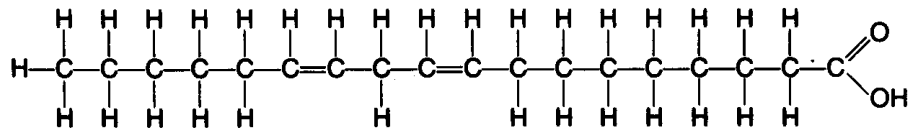
\_\_\_\_\_ Molecules are tightly packed together

\_\_\_\_\_ Usually liquid at room temperature

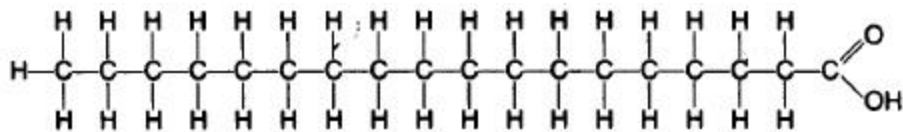
\_\_\_\_\_ Most plant fats

\_\_\_\_\_ Most animal fats

\_\_\_\_\_



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5. Why aren't unsaturated fats solid at room temperature?

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