

You should be able to identify the organic molecules pictured as belonging to the following categories and subcategories: (also know whether each lipid or carbohydrate is primarily hydrophilic or hydrophobic)

LIPIDS

- saturated fatty acid
- monounsaturated fatty acid
- polyunsaturated fatty acid
- phospholipid
- triglyceride
- steroid

CARBOHYDRATES

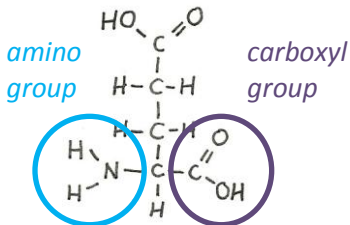
- monosaccharide
- disaccharide

AMINO ACIDS

NUCLEOTIDES

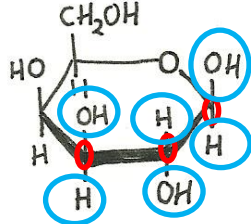
ATP

carboxyl group



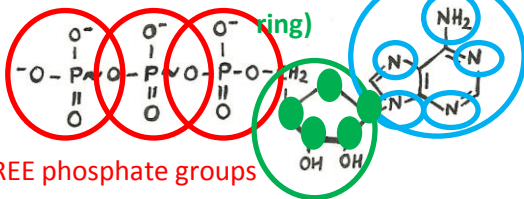
amino acid

many carbons with -H and -OH



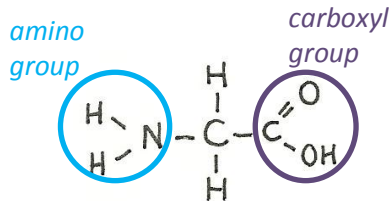
monosaccharide

pentose sugar (5 membered ring)



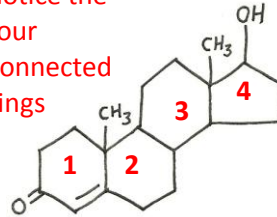
THREE phosphate groups

ATP (adenosine triphosphate)

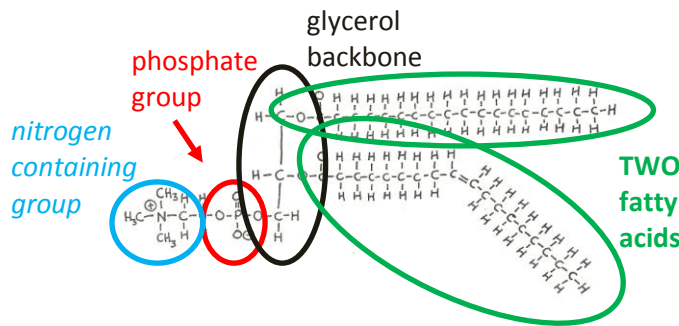


amino acid

notice the four connected rings

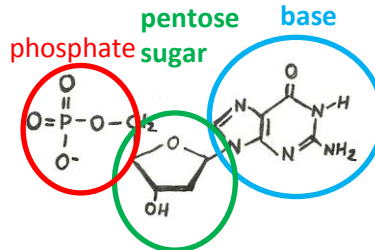


steroid



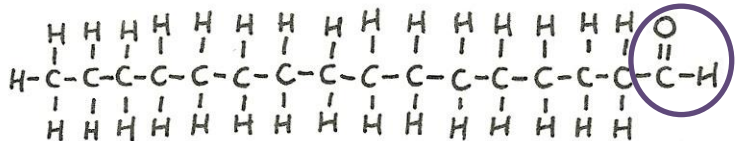
phospholipid

nitrogenous base (contains multiple nitrogens)

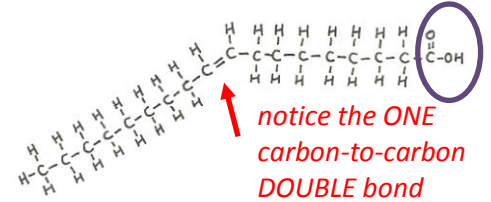


nucleotide

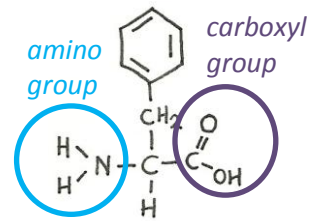
Only carbon-to-carbon SINGLE bonds
NO carbon-to-carbon DOUBLE bonds



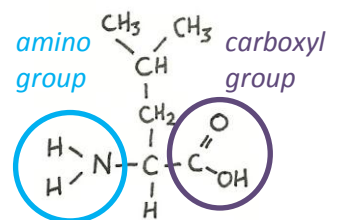
saturated fatty acid



monounsaturated fatty acid



amino acid



amino acid

carboxyl group