

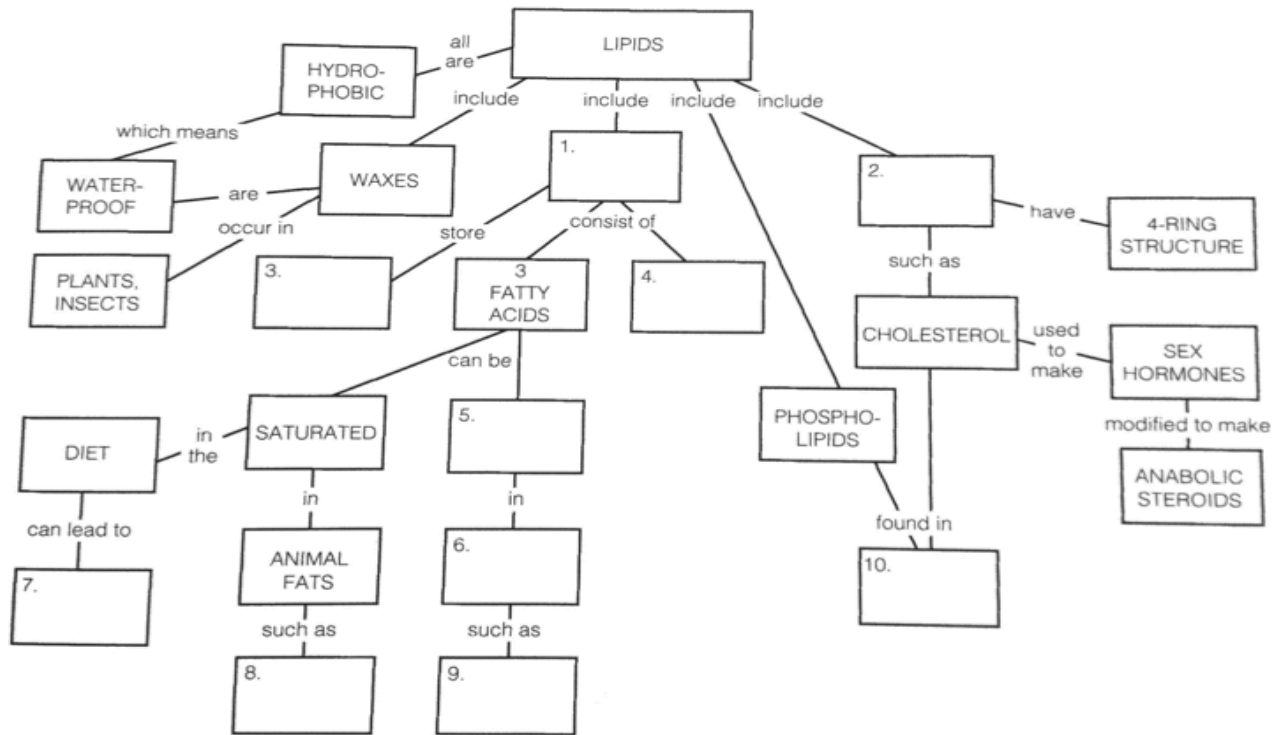
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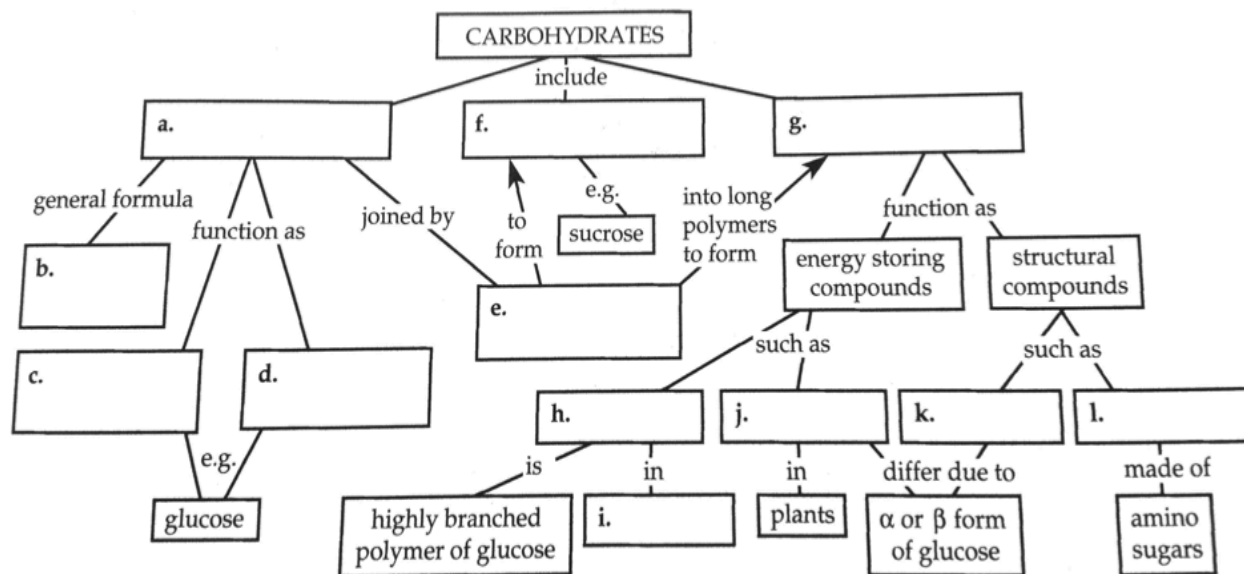
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Biomolecule	Subcategory (if applicable)	Subunit/monomer	Elements Present	Functional Groups	Function(s)	Examples
Carbohydrates Bond type: Glycosidic linkage	Sugars	N/A	C, H, O	Ketone, aldehyde, hydroxyl (possible, not in each one!)	Immediate energy	Glucose, fructose
	Starches	monosaccharides	C, H, O	Ketone, aldehyde, hydroxyl (possible, not in each one!)	Energy storage structure	Glycogen, amylose cellulose
Lipids Bond type: Ester Linkage	Fats/oils	Glycerol and 3 fatty acids	C, H, O	Carboxyl, hydroxyl	Long term energy storage	Oil, butter
	Phospholipids	Glycerol, 2 fatty acids, phosphate group	C, H, O, P	Carboxyl, hydroxyl, phosphate	Structure of cell membranes and other organelles	cell membrane
	Steroids	N/A	C, H, O	Carboxyl, hydroxyl,	Cell signaling (cell membrane component)	Estrogen, testosterone (cholesterol)
Proteins Bond type: Peptide bond		Amino acids (central carbon, amino group, R group, carboxyl group)	C, H, O, N, S	Carboxyl, amino and whatever might be in R group	transport	Hemoglobin
					cell signaling	Hormones (insulin)
					Structure	collagen
					Catalysts (enzymes)	Pepsin, amylase
					Defense	Antibodies
					Contractile	Muscle (actin)
Nucleic Acids Bond type: Phosphodiester linkage		Nucleotides (sugar, phosphate, nitrogenous base)	C, H, O, N, P	Amino, Phosphate Hydroxyl	Stores genetic information	DNA, RNA

Biomolecule Review Sheet – Honors Biology 2019



1. Fats/oils
2. Steroids
3. Energy 3. Fatty acids
4. Glycerol
5. Unsaturated
6. Plant fats
7. Heart disease
8. Butter
9. Vegetable oil
10. Cell membranes



- A. Monosaccharides
- B. $C_n(H_2O)_n$
- C. Fuel
- D. Energy
- E. Dehydration synthesis
- F. Disaccharides
- G. Polysaccharides
- H. Glycogen
- I. Animals
- J. Amylose
- K. Cellulose
- L. Chitin (glucosamine)