

# Unit 3 Notes

## BIOLOGY

### Area of Study 1: Molecules of Life

#### Biomacromolecules

Macromolecule	Elements	Sub-units	Examples with functions
Carbohydrates <i>Call</i>	<ul style="list-style-type: none"> <li>- Carbon (C)</li> <li>- Hydrogen (H)</li> <li>- Oxygen (O)</li> </ul> <b>CHO</b>	<b>Monosaccharides:</b> <ul style="list-style-type: none"> <li>• Glucose</li> <li>• Fructose</li> <li>• Ribose</li> </ul>	<b>Glycogen:</b> Energy storage in animals <b>Starch:</b> Energy storage in plants <b>Cellulose:</b> Structural component in plant cell wall <b>Chitin:</b> Exoskeleton in insects
Lipids <i>Lara</i>	<ul style="list-style-type: none"> <li>- Carbon (C)</li> <li>- Hydrogen (H)</li> <li>- Oxygen (O)</li> <li>- Phosphorus (P) [only in the case of phospholipids]</li> </ul> <b>CHOP</b>	<b>Triglycerides:</b> <ul style="list-style-type: none"> <li>• 1 Glycerol</li> <li>• 3 fatty acids</li> </ul> <b>Phospholipids:</b> <ul style="list-style-type: none"> <li>• 1 Glycerol</li> <li>• Phosphate group</li> <li>• 2 fatty acids</li> </ul>	<b>Triglycerides:</b> High energy stores e.g. fats in animals. Also thermal insulation under skin  <b>Phospholipids:</b> Comprises the plasma membrane of all cells and act as a barrier, separating the intracellular fluids from the extracellular fluids.  <b>Steroid hormones:</b> Simply diffuse through membranes and initiate a specific cellular response.
Nucleic acids <i>Not</i>	<ul style="list-style-type: none"> <li>• Carbon (C)</li> <li>• Hydrogen (H)</li> <li>• Oxygen (O)</li> <li>• Phosphorus (P)</li> <li>• Nitrogen (N)</li> </ul> <b>CHOPN</b>	<b>Nucleotides</b> <ul style="list-style-type: none"> <li>• Nitrogen containing base</li> <li>• Phosphate Group</li> <li>• Pentose Sugar</li> </ul>	<b>DNA (deoxyribonucleic acid)</b> <b>RNA (ribonucleic acid)</b>  Store information that determines how organisms develop and function.
Proteins <i>Polly</i>	<ul style="list-style-type: none"> <li>• Carbon (C)</li> <li>• Hydrogen (H)</li> <li>• Oxygen (O)</li> <li>• Nitrogen (N)</li> </ul>	<b>Amino acids</b> <ul style="list-style-type: none"> <li>• Amino Group</li> <li>• Carboxyl Group</li> </ul>	<b>Enzymes:</b> Catalyze (speed up) specific biochemical reactions  <b>Transport:</b> Structural components of plasma membrane: Protein channels and carrier proteins.

# Biology Unit 3 Notes Vce

**RJ Shavelson**



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