

	Carbohydrates	Lipids	Nucleic Acids	Proteins
Atoms	C, H, O	C, H	C, H, O, N, P	C, H, O, N
Monomer/Polymer Units	<hr/> Monosaccharide(glucose) Polysaccharide(starch)	X	<hr/> Nucleotide Nucleic Acid	<hr/> Amino Acid Polypeptide
Use/Function	<ul style="list-style-type: none"> <li>-Main Source of Energy</li> <li>-Structure in some organisms</li> </ul>	<ul style="list-style-type: none"> <li>-Store energy</li> <li>-Membranes</li> <li>-Water proofing</li> </ul>	<ul style="list-style-type: none"> <li>-Store/transmit genetic information</li> </ul>	<ul style="list-style-type: none"> <li>-carry out most life functions</li> </ul>
Examples	Glucose, fructose, sucrose, starch, glycogen	Fats, Oils, Steroids	DNA, RNA	Hemoglobin
Other	Cellulose-plant carbs that make paper	<ul style="list-style-type: none"> <li>-Large Variation in group</li> <li>-Not soluble in H<sub>2</sub>O</li> <li>-Glycerol-fatty acids</li> <li>-Saturated/Unsaturated</li> </ul>	Nucleotide structure: 5 carbon sugar, Phosphate and Nitrogen Base	<ul style="list-style-type: none"> <li>-Amino group NH<sub>2</sub></li> <li>-Carboxyl group COOH</li> <li>-R-group-one part that is different</li> <li>-Shape is important, it is determined by:</li> <li>Primary Structure-Amino Acid Order</li> <li>Secondary Structure-Folding/Coiling</li> <li>Tertiary Structure-Polypeptide</li> <li>4<sup>th</sup> level-multiple polypeptides</li> </ul>