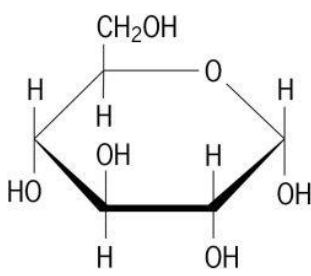
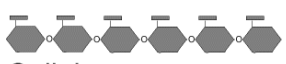
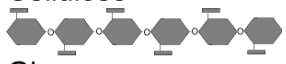
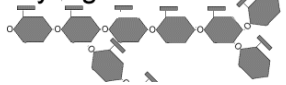
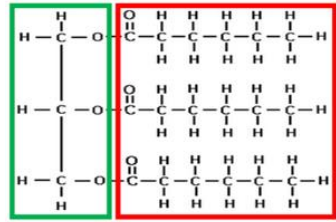
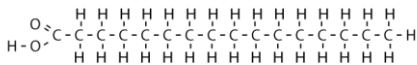
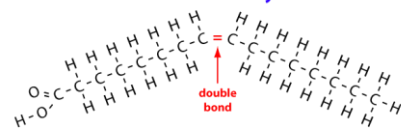
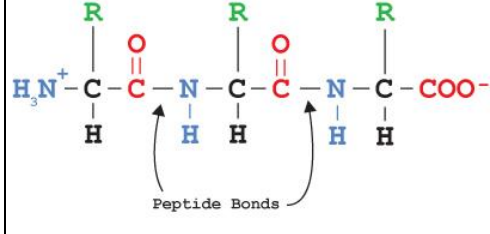
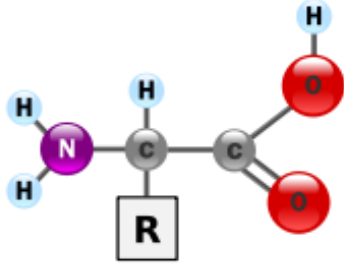
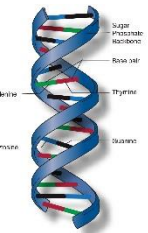

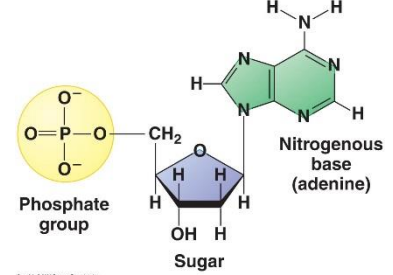
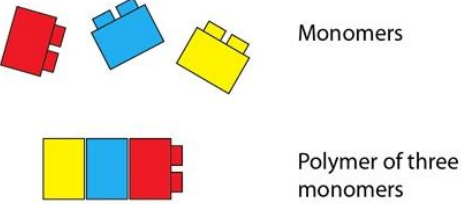
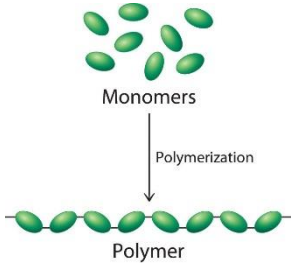
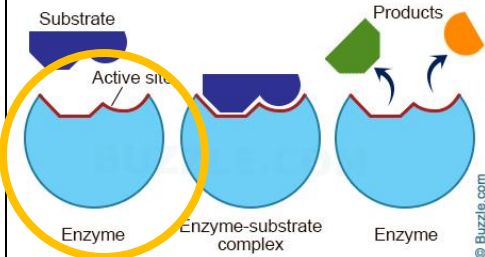
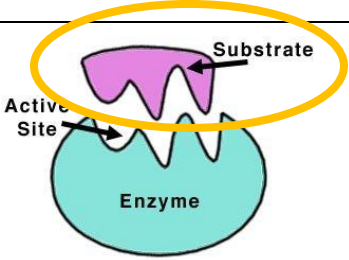
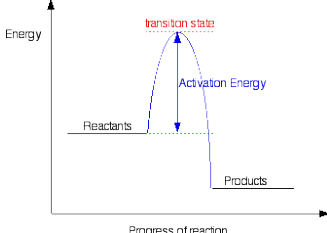
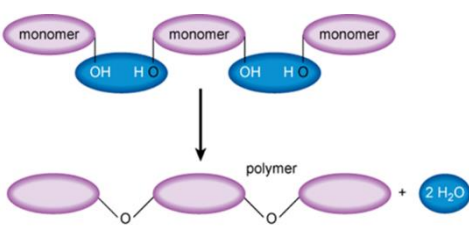
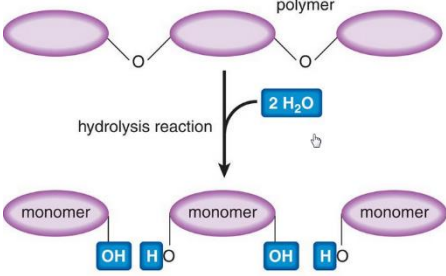


BIOCHEMISTRY VOCABULARY: Hard Copy

CARBOHYDRATE (47)	MONOSACCHARIDES (47)	POLYSACCHARIDES (47)						
<p>Definition: Molecule composed of carbon, hydrogen and oxygen; includes sugars and starches</p>	<p>Definition: The most basic carbohydrate or simple sugar</p> <p>Word Part: Mono- means <u>one</u> Sacchar means <u>sugar</u></p>	<p>Definition: Polymers of monosaccharides</p> <p>Word Part: Poly means <u>many</u> Sacchar means <u>sugars</u></p>						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="font-size: small;">Glucose</th> <th style="font-size: small;">Fructose</th> <th style="font-size: small;">Galactose</th> </tr> </thead> <tbody> <tr> <td style="font-size: x-small; text-align: center;"> $\begin{array}{c} \text{H} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$ </td> <td style="font-size: x-small; text-align: center;"> $\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$ </td> <td style="font-size: x-small; text-align: center;"> $\begin{array}{c} \text{H} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$ </td> </tr> </tbody> </table>	Glucose	Fructose	Galactose	$\begin{array}{c} \text{H} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$	$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$	$\begin{array}{c} \text{H} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$	<p>Starch</p>  <p>Cellulose</p>  <p>Glycogen</p> 
Glucose	Fructose	Galactose						
$\begin{array}{c} \text{H} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$	$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{C}=\text{O} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$	$\begin{array}{c} \text{H} \\ \\ \text{C}=\text{O} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{HO}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H}-\text{C}-\text{OH} \\ \\ \text{H} \end{array}$						
LIPID (48)	FATTY ACID (48)	PROTEIN (49)						
<p>Definition: Non-polar molecule composed of carbon, hydrogen and oxygen; includes fats and oils</p> <p>Word Part: Lip- means <u>fat</u></p>	<p>Definition: Hydrocarbon chain often bonded to glycerol in a lipid</p>	<p>Definition: Polymer composed of amino acids linked by peptide bonds; folds into a particular structure depending on bonds between amino acids</p>						
 <p style="text-align: center;">Glycerol Fatty Acid</p>	<p style="color: blue;">saturated fatty acid</p>  <p style="color: blue;">unsaturated fatty acid</p> 	 <p style="text-align: center;">Peptide Bonds</p>						
AMINO ACID (49)	NUCLEIC ACID (50)	NUCLEOTIDE (50)						
<p>Definition: Molecules that contain carbon, hydrogen, oxygen, and nitrogen and sometimes sulphur; molecule that makes up proteins</p>	<p>Definition: Polymer of nucleotides; the genetic material of organisms</p> <p>Word Part: Nuc- means <u>center</u></p>	<p>Definition: Monomer that forms DNA and has a phosphate group, a sugar, and a nitrogen-containing base</p> <p>Word Part: Nuc- means <u>center</u></p>						
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p style="font-size: x-small;">Deoxyribonucleic acid (DNA)</p> </div> <div style="text-align: center;">  <p style="font-size: x-small;">Ribonucleic acid (RNA)</p> </div> </div> <div style="text-align: center; font-size: 2em; font-weight: bold; margin-top: 10px;">RNA & DNA</div>	 <p style="text-align: center; font-size: small;">Phosphate group Nitrogenous base (adenine) Sugar</p>						

MONOMER (47)	POLYMER (47)	ENZYME (57)
<p>Definition: Each subunit in the complete molecule</p> <p>Word Part: Mono- means <u>one</u> -mer means <u>part</u></p>	<p>Definition: A large molecule, or macromolecule, made up of many monomers bonded together</p> <p>Word Part: Poly- means <u>many</u> -mer means <u>part</u></p>	<p>Definition: Protein that catalyzes chemical reactions for organisms</p>
		
SUBSTRATE (58)	ACTIVATION ENERGY (55)	Independent Variable (18)
<p>Definition: Reactant in a chemical reaction upon which an enzyme acts</p>	<p>Definition: Energy input necessary to initiate a chemical reaction</p>	<p>Definition: Condition or factor that is manipulated by a scientist during an experiment</p>
		<p>Cause</p> <p>Manipulated \rightarrow MIX: Manipulated Independent X axis</p> <p>Independent Variable \rightarrow</p>
DEHYDRATION SYNTHESIS	HYDROLYSIS	Dependent Variable (18)
<p>Definition: Monomers join together to form polymers by the removal of water</p> <p>Word Parts: De- means <u>remove</u> Hydr- means <u>water</u></p>	<p>Definition: Water is added to polymers. This breaks the polymers into monomers.</p> <p>Word Parts: Hydr- means <u>water</u> Lys- means <u>decompose, split</u></p>	<p>Definition: Experimental data collected through observation and measurement</p>
		<p>Effect</p> <p>DRY: Dependent Responding Y axis</p> <p>Measured \rightarrow</p> <p>Dependent Variable \rightarrow</p>