

# BIOLOGY BASICS UNIT 1- LESSON PLANS

<b>Topic</b>	Biology Basics
<b>Lesson Title</b>	Macromolecules
<b>Lesson Number</b>	1 -6b
<b>NGSS Standards</b>	<ul style="list-style-type: none"> <li>• <i>HS-LS1-6</i>. Construct and revise an explanation based on evidence for how carbon, hydrogen and oxygen from sugar molecules may combine with other elements to form amino acids and/or other large carbon-based molecules.</li> </ul>
<b>Learning objectives:</b>	<ul style="list-style-type: none"> <li>• Describe the structure of proteins and nucleic acids.</li> <li>• Describe how proteins and nucleic acid molecules are formed.</li> <li>• Compare chemical structures of proteins and nucleic acids and relate this to their role in living organisms.</li> </ul>
<b>“I can” statement:</b>	<ul style="list-style-type: none"> <li>• I can describe the structure proteins and nucleic acids, how these molecules are formed, compare their structures of proteins and nucleic acids and relate this to their role in living organisms.</li> </ul>
<b>Prior Knowledge:</b>	
<ul style="list-style-type: none"> <li>• Structure of the carbohydrates and lipids</li> <li>• Types of bonding occurring in carbohydrates and lipids</li> <li>• Functions of carbohydrates and lipids in living things.</li> </ul>	
<b>Vocabulary:</b>	
Macromolecule, monomer, polymer, condensation reaction, amino acid, proteins, enzymes, hormones, nucleic acid, DNA, RNA, nucleotide	
<b>Summary of Activities:</b>	
<ol style="list-style-type: none"> <li>1. Distribute and complete bell ringer activity.</li> <li>2. Discuss guided notes and slideshow, with students.</li> <li>3. Vocabulary worksheet</li> <li>4. Exit quiz</li> </ol>	
<b>Additional Resources:</b>	
<ul style="list-style-type: none"> <li>• See online activities</li> </ul>	
<b>Homework:</b>	
Homework assignment task	
<b>Assessment:</b>	
<ul style="list-style-type: none"> <li>• Bell work</li> <li>• Assignment</li> <li>• Exit quiz</li> <li>• End of unit review</li> </ul>	