

BIOLOGY BASICS UNIT 1- LESSON PLANS

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| Topic | Biology Basics |
| Lesson Title | Macromolecules |
| Lesson Number | 1 -7b |
| NGSS Standards | <ul style="list-style-type: none"> • <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. |
| Learning objectives: | <ul style="list-style-type: none"> • Describe the structure of proteins and nucleic acids. • Describe how proteins and nucleic acid molecules are formed. • Compare chemical structures of proteins and nucleic acids and relate this to their role in living organisms. |
| "I can" statement: | <ul style="list-style-type: none"> • 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. |
| Prior Knowledge: | |
| <ul style="list-style-type: none"> • Structure of the carbohydrates and lipids • Types of bonding occurring in carbohydrates and lipids • Functions of carbohydrates and lipids in living things. | |
| Vocabulary: | |
| Macromolecule, monomer, polymer, condensation reaction, amino acid, proteins, enzymes, hormones, nucleic acid, DNA, RNA, nucleotide | |
| Summary of Activities: | |
| <ol style="list-style-type: none"> 1. Distribute and complete bell ringer activity. 2. Discuss guided notes and slideshow, with students. 3. Vocabulary worksheet 4. Exit quiz | |
| Additional Resources: | |
| <ul style="list-style-type: none"> • See online activities | |
| Homework: | |
| Homework assignment task | |
| Assessment: | |
| <ul style="list-style-type: none"> • Bell work • Assignment • Exit quiz • End of unit review | |