

|                               |        |  |  |
|-------------------------------|--------|--|--|
| Name:<br>Kristoffer Van Atten |        | Grading Quarter:<br>Q1   | Week Beginning:<br>8/21/2023               |
| School Year: 23-24            |        | Subject: AP Biology  |  |
| Monday                        | Notes: | <p>Objective: SWBAT Understand and apply basic chemistry needed for the AP Bio exam, including: phases of matter, the atom and subatomic particles, the periodic table, valence electrons and electron configuration, Chemical bonding, the percent by mass of elements in various subsections of the universe, and Chemical Reactions</p> <p>Lesson Overview: Students take notes in their interactive notebooks and do activities based on the content.</p>  | Academic Standards:<br>Foundational Skills |
| Tuesday                       | Notes: | <p>Objective: SWBAT Understand and apply basic chemistry needed for the AP Bio exam, including: phases of matter, the atom and subatomic particles, the periodic table, valence electrons and electron configuration, Chemical bonding, the percent by mass of elements in various subsections of the universe, and Chemical Reactions</p> <p>Lesson Overview: Students take notes in their interactive notebooks and do activities based on the content.</p>  | Academic Standards:<br>Foundational Skills |
| Wednesday                     | Notes: | <p>Objective: SWBAT Explain how the properties of water that result from its polarity and hydrogen bonding affect its biological function.</p> <ul style="list-style-type: none"> <li>● SYI-1.A.1 The subcomponents of biological molecules and their sequence determine the properties of that molecule.</li> <li>● SYI-1.A.2 Living systems depend on properties of water that result from its polarity and hydrogen bonding.</li> <li>● SYI-1.A.3 The hydrogen bonds between water molecules result in cohesion, adhesion, and surface tension.</li> </ul> <p>Lesson Overview: Students take notes in their interactive notebooks and do activities based on the content. Begin Properties of Water Lab</p>   | Academic Standards:<br>SYI-1.A.1-3         |
| Thursday                      | Notes: | <p>Objective: SWBAT Describe the composition of macromolecules required by living organisms.</p> <ul style="list-style-type: none"> <li>● ENE-1.A.1 Organisms must exchange matter with the environment to grow, reproduce, and maintain organization.</li> <li>● ENE-1.A.2 Atoms and molecules from the environment are necessary to build new molecules – <ul style="list-style-type: none"> <li>a Carbon is used to build biological molecules such as carbohydrates, proteins, lipids, and nucleic acids. Carbon is used in storage compounds and cell formation in all organisms.</li> <li>b Nitrogen is used to build proteins and nucleic acids. Phosphorus is used to build nucleic acids and certain lipids.</li> </ul> </li> </ul> <p>Lesson Overview: Students take notes in their interactive notebooks and do activities based on the content</p> | Academic Standards:<br>ENE-1.A.1-2         |

|        |        |   |                     |
|--------|--------|---|---------------------|
| Friday | Notes: | <p>Objective: SWBAT Describe the composition of macromolecules required by living organisms.</p> <ul style="list-style-type: none"> <li>● ENE-1.A.1 Organisms must exchange matter with the environment to grow, reproduce, and maintain organization.</li> <li>● ENE-1.A.2 Atoms and molecules from the environment are necessary to build new molecules –               <ul style="list-style-type: none"> <li>a Carbon is used to build biological molecules such as carbohydrates, proteins, lipids, and nucleic acids. Carbon is used in storage compounds and cell formation in all organisms.</li> <li>b Nitrogen is used to build proteins and nucleic acids. Phosphorus is used to build nucleic acids and certain lipids.</li> </ul> </li> </ul> <p>Lesson Overview: Students take notes in their interactive notebooks and do activities based on the content. Students Finish Properties of Water Lab</p> | Academic Standards: |
|--------|--------|---|---------------------|