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| Teacher: Runyan | Course: Biology | Period(s): 1,2,4 | Week #: 10 |
| Unit Title: Cellular Energy/ Molecular Genetics | |  |  |
| State Standards: | |  |  |

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|  | Standards | Goals | As a result of this lesson the student will be able to: | Instructional Plan | Activities (aligned, sequenced, build, time) | Student Work | (Thinking & Problem Solving, Real World) | Assessment | (aligned, rubrics, >2, written) | Grouping Method | Materials | Accommodations (IEP, 504, ESOL) |
| **Monday** | H.B.3A.1  H.B.3A.3  H.B.3A.4  H.B.3A.5 | Describe and explain how cellular energy is created through the processes of photosynthesis and cellular respiration | | Cellular Energy Unit Assessment | | Cellular Energy Unit Assessment | | Unit Assessment (Summative) | |  |  | Extra time will be given as needed, one to one interactions as needed or requested |
| **Tuesday** | H.B.4A.1  H.B.4A.2  H.B.4B.1  H.B.4B.2 | Describe the chemical structure of a DNA Molecule | | Review the Cellular Energy Assessment  Introduce the Molecular Genetics pre-test opportunity  Start the Molecular Genetics vocab graphic organizer | | Review the Assessment for incorrect answers  Molecular Genetics pre-test  Vocab graphic organizer | | Pre-Test (Formative) | |  |  | Extra time will be given as needed, one to one interactions as needed or requested |
| **Wednesday** | H.B.4A.1  H.B.4A.2  H.B.4B.1  H.B.4B.2 | Describe the chemical structure of a DNA molecule | | EOC practice questioning  Building a DNA model activity  Finishing Molecular Genetics vocab graphic organizer | | EOC practice question  Students will be given various materials and asked to construct a DNA model with appropriate labels  Finish vocab graphic organizer | | EOC question (formative)  DNA model activity (formative) | |  | Various materials from pipe cleaners, construction paper, scissors, and markers | Extra time will be given as needed, one to one interactions as needed or requested |
| **Thursday** | H.B.4A.1  H.B.4A.2  H.B.4B.1  H.B.4B.2 | Explain how DNA replicates itself being semi-conservative | | Begin by reviewing/ quizzing over the detailed structure of DNA  Teacher led, guided notes on the DNA replication process  Start the nucleotide replacement assignment (homework if not completed) | | Review/ quiz over the detailed structure of DNA  DNA replication notes  Nucleotide replacement assignment | | Quiz (summative)  Nucleotide replacement assignment (formative) | |  |  | Extra time will be given as needed, one to one interactions as needed or requested |
| **Friday** |  | Describe the chemical structure of a DNA molecule  Explain how DNA replicates itself being semi-conservative | | EOC practice questioning  DNA extraction from a banana lab activity  Lab analysis questioning (time permitting) | | EOC practice questioning  DNA extraction lab  Lab analysis questioning (time permitting) | | EOC practice (formative)  Lab analysis (formative) | |  | Shampoo, banana, isopropyl alcohol, toothpicks, containers with screw on lids,  Salt | Extra time will be given as needed, one to one interactions as needed or requested |

\* All plans are subject to change. Student progress will be monitored and adjustments will be made.