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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.2H.B.4B.1 H.B.4B.2  | Describe the chemical structure of a DNA Molecule  |  Review the Cellular Energy AssessmentIntroduce 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.2H.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 questionStudents 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.2H.B.4B.1 H.B.4B.2 | Explain how DNA replicates itself being semi-conservative  |  Begin by reviewing/ quizzing over the detailed structure of DNATeacher 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.