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| Teacher: Runyan  | Course: Biology  | Period(s): 1,2,4 | Week # 9 |
| Unit Title: Biochemistry/ Cell Structure  |  |  |
| 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 the process of cellular respiration and write the equation showing reactants and products  |  Teacher led breakdown of the cellular respiration equation. Class discussion: how does sunlight drive the cellular respiration process Cellular Respiration POGIL handout  |  Class discussion Cellular Respiration POGIL handout/ diagram led questioning | POGIL handout (formative)  |  |  | Extra time will be given as needed, one to one interactions as needed or requested  |
| **Tuesday** | H.B.3A.1 H.B.3A.3 H.B.3A.4 H.B.3A.5 | Describe the process of cellular respiration and write the equation showing reactants and products | EOC Practice questioning  Amoeba Twins: Cellular energy and respiration video, follow up questions Cellular Respiration concept mapping… breaking down the products of each process within cellular respiration: glycolysis, krebs cycle, and electron transport  |  Follow up questioning from the video Concept mapping ATP calculating Finish up POGIL assignment  |  Follow up questions (formative) POGIL handout (formative) EOC practice question (formative)  |  | Student Calculators may be needed  | Extra time will be given as needed, one to one interactions as needed or requested  |
| **Wednesday** | H.B.3A.1 H.B.3A.3 H.B.3A.4 H.B.3A.5 | Describe the process of cellular respiration and write the equation showing reactants and productsIllustrate and explain the structure of ATP  |  Start with a walk through (like a play) of the cellular respiration process and how much ATP is generated at each stepCellular Respiration Quiz ATP structure puzzle  | Cellular Respiration Quiz Students will build models of the ATP (energy) molecule… using pieces of a cut out puzzle | Quiz (summative) ATP model (formative)  |  | Scissors and glue  | Extra time will be given as needed, one to one interactions as needed or requested  |
| **Thursday** | H.B.3A.1 H.B.3A.3 H.B.3A.4 H.B.3A.5 | Illustrate and explain the structure of ATP Explain the differences and similarities between aerobic and anaerobic respiration  |  EOC Practice questioning ATP structure walk through (revisiting the structure with a few notes) Anaerobic respiration mini lab activity (observing the production of carbon dioxide to produce a conclusion) Post lab questioning/ making connections  |  EOC practice questions ATP walkthrough Anaerobic respiration mini lab activity with post lab questioning  | EOC questions (formative) Post lab questions (formative)  |  | Empty water bottles, yeast, sugar water | Extra time will be given as needed, one to one interactions as needed or requested  |
| **Friday** | H.B.3A.1 H.B.3A.3 H.B.3A.4 H.B.3A.5 | Explain the differences and similarities between aerobic and anaerobic respiration  | Anaerobic mini lab question/ making connections- review Cellular Energy review game/ interactive website Cellular Energy Study Guide, guided by the text Student self-check of the study guide  | Review game/ interactive website Study guide, guided by the book  | Review game/ interactive website (verbal formative)  |  | Student Laptops  | 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.