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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 products  Illustrate 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 step  Cellular 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.