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| Teacher: Runyan | Course: Biology | Period(s): 1,2,4 | Week: 11 |
| Unit Title: 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.4A.1  H.B.4A.2  H.B.4B.1  H.B.4B.2 | Explain the chemical structure of DNA  Describe the structural differences between DNA and RNA | | Quick DNA structure review/ warm-up activity  DNA building gizmo activity/ interactive lab  Guided notes covering RNA structure (time permitting) | | Quick review/ warm-up activity  DNA building Gizmo/ interactive lab and conclusion questions | | Quick review/ warm- up (formative)  DNA building Gizmo/ interactive lab and conclusion questions (formative) | | Lab/ learning groups | Student laptops | 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 structural differences between DNA and RNA | | EOC practice questioning  Guided notes covering RNA structure  Graphic organizer: comparing and contrasting DNA vs. RNA | | EOC practice questioning  Guided notes: RNA structure  Graphic organizer: comparing and contrasting RNA vs. DNA | | EOC practice questioning (formative)  Graphic organizer (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 | Explain the chemical structure of DNA  Describe the structural differences between DNA and RNA | | Quiz: DNA/ RNA structure and replication  Amoeba sisters video: Transcription and Translation  Video conclusion questions  Introduce the beginning of DNA synthesizing proteins | | Quiz: DNA/ RNA structure and replication  Video conclusion questions | | Quiz (Summative)  Video conclusion questions (formative) | |  |  | 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 sequences are transcribed then translated into proteins | | Guided notes on the transcription/ translation/ amino acid coding/ protein synthesis process  Transcription and translation practice… coding for amino acids | | Guided notes: transcription/ translation/ amino acid coding/ protein synthesis  Transcription and translation practice… coding for amino acids | | Transcription and translation practice (formative) | |  | Colored pencils, crayons, markers, amino acid coding key | Extra time will be given as needed, one to one interactions as needed or requested |
| **Friday** | H.B.4A.1  H.B.4A.2  H.B.4B.1  H.B.4B.2 | Explain how DNA sequences are transcribed then translated into proteins | | Snork building activity: Students are given random DNA sequences and must code out their amino acid sequences in order to decipher characteristics… then build the actual Snork | | Snork building activity | | Snork building activity (formative) | |  | Colored pencils, crayons, markers, amino acid coding key | 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.