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| Teacher: Y. Abrams | Course: AP Biology  | Period(s): 2 | Week of: / Dates: 9/4 – 9/8 |
| Unit Title: Evolution |  |  |
| State Standards: AP College Board Big Idea 1 |  |  |

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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** | EK 1.A.1LO. 1.2 | Evaluate evidence provided by data to qualitatively and/or quantitatively investigate the role of natural selection in evolution. | NO SCHOOL - LABOR DAY |  |  | Individual practiceWhole group | AP Biology textbookPowerpoint presentationHHMI Biointeractives | N/A |
| **Tuesday** | EK 1.A.1LO. 1.1, 1.3 | Convert a data set from a table of numbers that reflect a change in the genetic makeup of a population over time and to apply mathematical methods and conceptual understandings to investigate the cause(s) and effects(s) of this change. Apply mathematical methods to data from a real or simulated population to predict what will happen to the population in the future. | Warm-up question (10 min.)Reading quiz (20 min.)1.A.1 notes (20 min)Hardy-Weinberg problems (35 min.)Exit slip (5 min.) | Warm-up question response applying class content.Apply mathematical methods to evolution related questions.HW: Read 23.3 | Warm-up response rubricInformal assessment during discussion by questioning and student summariesMultiple choice and free response quizStudent using SMARTBOARD to practice Hardy-Weinberg problems | Individual practiceWhole group | AP Biology textbookPowerpoint presentationWorksheets | N/A |
| **Wednesday** | EK 1.A.1LO. 1.1, 1.3 | Convert a data set from a table of numbers that reflect a change in the genetic makeup of a population over time and to apply mathematical methods and conceptual understandings to investigate the cause(s) and effects(s) of this change. Apply mathematical methods to data from a real or simulated population to predict what will happen to the population in the future. | Warm-up question (10 min.)Reading quiz (20 min.)1.A.1 discussion/notes (15 min.)Mastering Biology questions/exercises (40 min.)Exit slip (5 min.) | Warm-up question response applying class content.Use computer simulations to practice content. HW: Read 13.4 | Warm-up response rubricInformal assessment during discussion by questioning and student summariesStudents will use Mastering Biology technology. Multiple choice and free response quiz | Individual practiceWhole group | AP Biology textbookPowerpoint presentationWorksheetsCOW | N/A |
| **Thursday** | EK 1.A.2LO. 1.4, 1.5 | Evaluate data-based evidence that describes evolutionary changes in the genetic makeup of a population over time.Connect evolutionary changes in a population over time to a change in the environment. | Warm-up question (10 min.)Reading quiz (15 min.)1.A.2 notes (20 min.)Peppered moth simulation (40 min.)Exit slip (5 min.) | Warm-up question response applying class content.Complete online simulation of peppered moth experiment. | Warm-up response rubricMultiple choice quizInformal assessment during discussion by questioning and student summariesSummarize data collected during online simulation. | Individual practiceWhole group | AP Biology textbookPowerpoint presentationWorksheetsComputer | N/A |
| **Friday** | EK 1.A.2LO. 1.4, 1.5 | Evaluate data-based evidence that describes evolutionary changes in the genetic makeup of a population over time.Connect evolutionary changes in a population over time to a change in the environment. | Warm-up question (10 min.)Vocabulary quiz (15 min.)Finish simulation activity (15 min.)1.A.2 discussion/notes (30 min.)Discuss research project (15 min.)Exit slip (5 min.) | Warm-up question response applying class content.Complete online simulation of peppered moth experiment. Research and present information for assigned evolution related topics. | Warm-up response rubricMultiple choice and free response quizInformal assessment during discussion by questioning and student summariesSummarize data collected during online simulation.Research and presentation rubric | Individual practiceWhole group | AP Biology textbookPowerpoint presentationWorksheetsComputer | N/A |

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