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| Teacher: Y. Abrams | Course: AP Biology  | Period(s): 2 | Week of: / Dates: 10/16 – 10/20 |
| Unit Title: Ecology |  |  |
| State Standards: AP College Board Big Idea 4 |  |  |

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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 4.A.5LO 4.12 | Apply mathematical routines to quantities that describe communities composed of populations of organisms that interact in complex ways. | Warm-up question (10 min.)Reading quiz (15 min.)Logistic and exponential growth problems (35 min.)53.4 and 53.5 notes (25 min.)Exit slip (5 min.) | Warm-up question response applying class content.Use math skills to solve population growth problems. | Warm-up response rubricInformal assessment during discussion by questioning and student summariesMultiple choice and free response quiz | Individual practiceWhole group | AP Biology textbookHandoutsPowerpoint presentations | N/A |
| **Tuesday** | EK 4.A.5LO 4.11 | Justify selection of the kind of data needed to answer scientific questions about the interactions of populations within communities. | Warm-up question (10 min.)53.6 notes (25 min.)Ecological footprint activity (10 min.)Population graphs (40 min.)Exit slip (5 min.) | Warm-up question response applying class content.Relate life activities to real world consequences.Practice analyzing data from various graphs.Read 54.2 | Warm-up response rubricInformal assessment during discussion by questioning and student summaries | Individual practiceWhole group | AP Biology textbookPowerpoint presentationHandouts | N/A |
| **Wednesday** | EK 4.A.6LO 4.16 | Predict the effects of a change of matter or energy availability on communities. | Warm-up question (10 min.)Reading quiz (15 min.)Work on research project (60 min.)Exit slip (5 min.) | Warm-up question response applying class content.Research information to be presented as a multi-dimensional project. | Warm-up response rubricMultiple choice and free response quizProject rubric | Individual practice | AP Biology textbookHandoutsCOW | N/A |
| **Thursday** | EK 4.A.5LO 4.11 | Justify selection of the kind of data needed to answer scientific questions about the interactions of populations within communities. | Warm-up question (10 min.)Work on research projects (75 min.)Exit slip (5 min.) | Warm-up question response applying class content.Research information to be presented as a multi-dimensional project | Warm-up response rubricProject rubric | Individual practice | AP Biology textbookHandoutsCOW | N/A |
| **Friday** | EK 4.A.5LO 4.11 | Justify selection of the kind of data needed to answer scientific questions about the interactions of populations within communities. | Warm-up question (10 min.)Vocabulary quiz (15 min.)Present biome project (60 min.)Exit slip (5 min.) | Warm-up question response applying class content.Present research in various forms of media. | Warm-up response rubricMultiple choice and free response quizProject rubric | Individual practiceWhole group | AP Biology textbookPowerpoint presentationWorksheets | N/A |

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