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| Teacher: Y. Abrams | Course: AP Biology | Period(s): 2 | Week of: / Dates: 12/04 – 12/08 |
| Unit Title: Interactions | |  |  |
| 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.4  LO 4.9  LO 4.10 | Predict the effects of a change in a component of a biological system on the functionality of an organism. Refine representations and models to illustrate biocomplexity due to interactions of the constituent parts. | | Warm-up question (10 min.)  Start organs and systems interactions project (75 min.)  Exit slip (5 min.) | | Warm-up question response applying class content.  Research and present in various formats the interactions between assigned organs and organ systems in plants and animals.  HW: Complete lab and protein folding activity | | Warm-up response rubric  Informal assessment during discussion by questioning and student summaries  Project rubric | | Individual work | AP Biology textbook  Handouts  COW | N/A |
| **Tuesday** | EK 4.A.4  LO 4.9  LO 4.10 | Predict the effects of a change in a component of a biological system on the functionality of an organism. Refine representations and models to illustrate biocomplexity due to interactions of the constituent parts. | | Warm-up question (10 min.)  Work on interactions project (75 min.)  Exit slip (5 min.) | | Warm-up question response applying class content.  Research and present in various formats the interactions between assigned organs and organ systems in plants and animals. | | Warm-up response rubric  Project rubric | | Individual work | AP Biology textbook  Handouts  COW | N/A |
| **Wednesday** | EK 4.B.1  LO 4.17 | Analyze data to identify how molecular interactions affect structure and function. | | Warm-up question (10 min.)  Conduct student-designed experiments (75 min.)  Exit slip (5 min.) | | Warm-up question response applying class content.  Conduct and report on student-designed lab experiments about enzymes. | | Warm-up response rubric  Lab results | | Individual work | AP Biology textbook  Handouts  Lab materials | N/A |
| **Thursday** | EK 4.A.4  LO 4.9  LO 4.10 | Predict the effects of a change in a component of a biological system on the functionality of an organism. Refine representations and models to illustrate biocomplexity due to interactions of the constituent parts. | | Warm-up question (10 min.)  Work on interactions project (75 min.)  Exit slip (5 min.) | | Warm-up question response applying class content.  Research and present in various formats the interactions between assigned organs and organ systems in plants and animals. | | Warm-up response rubric  Project rubric | | Individual practice | AP Biology textbook  Handouts  COW | N/A |
| **Friday** | EK 4.A.4  LO 4.9  LO 4.10 | Predict the effects of a change in a component of a biological system on the functionality of an organism. Refine representations and models to illustrate biocomplexity due to interactions of the constituent parts. | | Warm-up question (10 min.)  Vocabulary quiz (15 min.)  Work on interaction project (60 min.)  Exit slip (5 min.) | | Warm-up question response applying class content.  Research and present in various formats the interactions between assigned organs and organ systems in plants and animals. | | Warm-up response rubric  Project rubric | | Individual practice | AP Biology textbook  Handouts  COW | N/A |

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