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| Teacher: Y. Abrams | Course: Biology I CP | Period(s): 3 and 4 | Week of: /Dates: 12/11 – 12/15 |
| Unit Title: Heredity |  |  |
| State Standards: B-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** | H.B.4C.2  | Analyze data on the variation of traits among individual organisms within a population to explain the patterns in the data in the context of transmission of genetic information. | Warm-up question (10 min.)Punnett square practice (25 min.)Non-Mendelian genetics notes (25 min.)Complex inheritance problems (25 min.)Exit slip (5 min.) | Respond to warm-up question using content knowledge.Solve Punnett square problems.Discuss and non-Mendelian genetics.Prepare for benchmark test: Thursday | Informal assessment by asking questions and student summaries during class.Unit assessment that includes multiple choice questions, graphic interpretation, and free response questions. | Individual practiceWhole group | Biology textbookHandoutsSMARTBOARD | Extended time on assignments.Read aloud all directions from handouts. |
| **Tuesday** | H.B.4C.2  | Analyze data on the variation of traits among individual organisms within a population to explain the patterns in the data in the context of transmission of genetic information. | Warm-up question (10 min.)Pedigree notes/problems (55 min.)Mutations notes (20 min.)Exit slip (5 min.). | Respond to warm-up question using content knowledge.Discuss pedigrees and mutations.Practice reading and creating pedigrees. | Informal assessment by asking questions and student summaries during class.Unit assessment that includes multiple choice questions, graphic interpretation, and free response questions. | Individual practiceWhole group | Biology textbookHandoutsSMARTBORAD | Extended time on assignments.Read aloud all directions from handouts. |
| **Wednesday** | H.B.4C.2  | Analyze data on the variation of traits among individual organisms within a population to explain the patterns in the data in the context of transmission of genetic information. | Warm-up question (10 min.)Karyotyping activity (75 min.)Exit slip (5 min.) | Respond to warm-up question using content knowledge.Complete and assess karyotyping activity. | Informal assessment by asking questions and student summaries during class discussions/activities.Unit assessment that includes multiple choice questions, graphic interpretation, and free response questions. | Individual practiceWhole group | Biology textbookHandoutsSMARTBORAD | Extended time on assignments.Read aloud all directions from handouts. |
| **Thursday** |  |  | Biology benchmark test |  |  | Individual practice | COW | Extended time on assignments.Read aloud all directions from handouts. |
| **Friday** | H.B.4C.2  | Analyze data on the variation of traits among individual organisms within a population to explain the patterns in the data in the context of transmission of genetic information. | Warm-up question (10 min.)Genetics unit assessment (75 min.)Exit slip (5 min.) | Respond to warm-up question using content knowledge.Complete 4-square activity for unit assessment. | Informal assessment by asking questions and student summaries during class discussions/activities.Unit test that includes multiple choice questions, graphic interpretation, and free response questions. | Individual practice | Biology textbookHandoutsSMARTBOARD | Extended time on assignments.Read aloud all directions from handouts. |

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