

Bayou View Middle School – Weekly Lesson Plans

**Teachers:** Mrs. Lee & Mrs. Helms & Ms. Mahand

**Week of:** 9-20-21

**Subject:** Science 8

**Standards:**

- MS Science Standard:
- L.8.2B.3 Use mathematical and computational thinking to analyze data and make predictions about the outcome of specific genetic crosses (monohybrid Punnett Squares) involving simple dominant/recessive traits.
- L.8.2C.1 Communicate through diagrams that chromosomes contain many distinct genes and that each gene holds the instructions for the production of specific proteins, which in turn affects the traits of the individual (not to include transcription or translation).
- L.8.2C.2 Construct scientific arguments from evidence to support claims about the potentially harmful, beneficial, or neutral effects of genetic mutations on organisms.
- **Essential Questions: How do genes hold the specific instruction for the production of a protein?**

| Day/Date                     | Bell Work    | Objectives<br>("The student will...")   | Procedures<br>TI = Teacher Input, M = Modeling, GP = Guided Practice, IP = Independent Practice<br>TTW = "The teacher will..." TSW = "The students will..."                        | Assessment<br>Observation, Activities<br>Project, Quiz, Unit<br>Test, DCA, etc.     | Closure    |
|------------------------------|--------------|---|--|---|------------|
| Monday<br>9-20<br>Regular    | ACT practice | .....make predictions about the outcome of specific genetic crosses             | <b>ANTICIPATORY SET:</b><br><br>TSW: Finish Explore 1 Chromosomes, Genes, and Proteins.<br>Homework:   | Assessment_X_<br>Observation__<br>Activities__<br>Project_X_<br>Quiz__<br>Explore__ |            |
| Tuesday<br>9-21<br>Regular   | ACT practice | ...explain the basic principles of heredity                                     | <b>ANTICIPATORY SET:</b> Genes and Proteins Discuss What are genes and What do they control?<br><br>TSW: Explore 2 Modeling Mutations Part 1<br>TTW: Guide and assist<br>Homework: | Assessment__<br>Observation__<br>Activities__<br>Project__<br>Quiz__<br>Explore_X   | Discussion |
| Wednesday<br>9-22<br>Regular | ACT practice | ....can use diagrams to explain how genes hold instructions to produce proteins | <b>ANTICIPATORY SET:</b><br><br>TSW: Explore 2 Modeling Mutations Part 2<br>TTW: Guide and assist<br>Homework:   | Assessment__<br>Observation__<br>Activities__<br>Project__<br>Quiz__<br>Explore_X   | Questions  |
| Thursday<br>9-23<br>Regular  | ACT practice | ....can use diagrams to explain how genes hold instructions to produce proteins | <b>ANTICIPATORY SET:</b><br><br>TSW: 9 Weeks Exam<br>Homework:   | Assessment_X_<br>Observation__<br>Activities__<br>Project__<br>Quiz__<br>Explore__  | Discussion |
| Friday<br>9-24               |              |   | <b>ANTICIPATORY SET:</b>   |   |            |

Gene Diagram

.....can use diagrams to

Assessment\_\_  
Observation\_\_

Discussion

|                |  |   |  |                                  |  |
|----------------|--|---|--|----------------------------------|--|
| <b>Regular</b> |  | hold instructions<br>to produce<br>proteins | <b>TTW:</b> instruct, model, guide, and monitor.<br><b>Homework:</b> | Project__<br>Quiz__<br>Explore__ |  |
|----------------|--|---|--|----------------------------------|--|

**Differentiation:** Flexible grouping strategies, additional teacher-guided instruction when necessary.