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| **Standards:SB2. B. construct an argument based on evidence to support the claim that inheritable genetic variations may result from:**  **\* New genetic combinations through meiosis (crossing over, Nondisjunction):**  **\* Non-lethal errors occurring during replication (insertions, deletions, substitutions) and /or**  **\* Heritable mutations caused by environmental factors (radiation, chemicals, and viruses).**  **C. Ask questions to gather and communicate information about the use and ethical consideration of biotechnology in forensics, medicine and agriculture.**  **(**Clarification statement: the element is intend to include advancements in technology relating to economics and society such as advancements may include Genetically Modified Organisms.)  **Assessment: ☐ Quiz ☐ Unit Test ☐ Project ☐ Lab ☐ None** | | | | | | | | |
|  | **Pre-Teaching**  *C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp*  **Learning Target**    **Success Criteria 1**    **Success Criteria 2** | **Activation of Learning**  *(5 min)* | **Focused Instruction**  *(10 min)*  ***\*I DO*** | **Guided Instruction**  *(10 min)*  ***\*WE DO*** | **Collaborative**  **Learning**  *(10 min)*  ***\*Y’ALL DO*** | **Independent Learning**  *(10 min)*  ***\*YOU DO*** | **Closing**  *(5 min)* |
| * Do Now * Quick Write\* * Think/Pair/Share * Polls * Notice/Wonder * Number Talks * Engaging Video * Open-Ended Question | * Think Aloud * Visuals * Demonstration * Analogies\* * Worked Examples | * Call/Response * Probing Questions * Graphic Organizer * Digital Whiteboard | * Discussions\* * Expert Groups * Labs * Stations * Think/Pair/Share * Create Visuals | * Written Response\* * Digital Portfolio * Presentation * Canvas Assignment * Choice Board * Independent Project * Portfolio | * Group Discussion * Exit Ticket * 3-2-1 * Parking Lot * Journaling\* * Nearpod |
| **Monday**  **01/27/2025** | I am learning about New Genetic Combinations Through Meiosis.  I can analysis the Crossing Over, Nondisjunction | Do Now: Questions on the whiteboard. | **Demonstration on genetic variations** | **Students will respond to the probing Questions.** | **Group discussion on crossing over and nondisjunction** | **quizzes** | TOTD |
| **Tuesday**  **1/28/2025** | I am learning about Non-lethal Errors During DNA Replication I can analysis the ERRORS IN DNA replication | **Do Now: Questions on the whiteboard** | **Demonstration on ERRORS IN DNA replication** | **Students will respond to the probing Questions.** | **Create visuals on errors in DNA replication** | **Practice on quizzes.** | **TOTD** |
| **Wednesday**  **1/29/2025** | I am learning about Heritable Mutations Caused by Environmental Factors I can analysis the mutations due to radiation, chemicals, and virus. | Do Now: Questions on the whiteboard. | **Demonstration on mutations caused by radiation, chemicals, and Virus.** | **Students will respond to the probing Questions.** | **Group discussion on environmental factors that caused for mutations.** | **Independent project.** | TOTD |
| **Thurs day**  **1/30/2025** | I am learning Genetic variations and its types. I can analysis the Types of Genetic Variation:  . | **Do Now: Questions on the whiteboard** | **Web quest on Genetic variations and its types** | **Students will respond to the probing Questions.** | **Creating visuals on genetic variations.** | **Practice on quizzes.** | TOTD |
| **Fri day**  **1/31/2025** | **review**  review | **Do Now: Questions on the whiteboard.** | **Quizzes on Genetic Variations** | **Quizzes on Genetic Variations** | **Quizzes on Genetic Variations** | **Quizzes on Genetic Variations** | **Quizzes on Genetic Variations** |