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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** |