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| **Standards:**   * SB6: Students will investigate and understand that organisms are composed of cells. | | | | | | | | |
|  | **Pre-Teaching**  ***C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp***  **Learning Target**  **A green square with a white check mark  AI-generated content may be incorrect.**  **Success Criteria 1**  **A green square with a white check mark  AI-generated content may be incorrect.**  **Success Criteria 2** | **Activation of Learning**  ***(5 min)*** | **Focused Instruction**  ***(10 min)***  ***\*I DO*** | **Guided Instruction**  ***(10 min)***  ***\*WE DO*** | **Collaborative**  **Learning**  ***(10 min)***  ***\*YOU 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 * PPT/Video | * 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  08/18/2025 | ***C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp***I can understand the lytic cycle of a virus **A green square with a white check mark  AI-generated content may be incorrect.** Students will define the key stages of lytic cycle of a bacteriophage | DO NOW! In Nearpod | Explain how viruses replicate through the lytic cycle | Discuss on the lytic cycle and lysogenic cycle with an article on the life cycle of a bacteriophage | Group Activities:   1. Virus Charades 2. Human Timeline 3. Lytic Cycle Pictionary | | Station 1# Virus Life Cycle- Lytic |
| Tuesday  08/19/2025 | ***C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp*** I can understand the lysogenic cycle of a virus  A green square with a white check mark  AI-generated content may be incorrect. Students will explain the stages of lysogenic cycle of a bacteriophage | Probing question- "What are the 5 stages of a lytic cycle?” | * A short video on lysogenic life cycle * Focused learning through PPT | Discuss on the stages of lysogenic cycle of a bacteriophage we have seen in the video and make our opinions. | Group Activities:   1. Comparative study on lytic and lysogenic cycles | | Station 2# Virus Life Cycle- identify lytic & lysogenic cycles |

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|  | ***C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp*Pre-Teaching**  **Learning Target**  **A green square with a white check mark  AI-generated content may be incorrect. Success Criteria** | **Activation of Learning**  ***(5 min)*** | **Focused Instruction**  ***(10 min)***  ***\*I DO*** | **Guided Instruction**  ***(10 min)***  ***\*WE DO*** | **Collaborative**  **Learning *(10 min)***  ***\*YOU ALL DO*** | | **Independent Learning**  ***(10 min)***  ***\*YOU DO*** | | **Closing**  ***(5 min)*** |
| Wednesday  08/13/2025 | ***C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp*** Students will be able to compare the lytic and lysogenic cycles of viral reproduction.A green square with a white check mark  AI-generated content may be incorrect. Students will analyze and interpret data to determine the relationship between the structure and function of biological macromolecules. | Brainstorming questions to be answered on small dry erase boards | Revisit the process of lytic and lysogenic cycles in a Bacteriophage. | Nearpod Discussion on Vaccines-  “Explain how vaccines work. Feel free to explain in words and/or pictures. Then, discuss your response with a partner.” | | Activity on Nearpod- “In a paragraph, explain how a virus replicates and why diseases caused by viruses are harder to treat than bacterial infections. Be sure to use specific examples.” | | | Exit Ticket on vocabulary  Define Lytic & Lysogenic cycles |
| Thursday  08/13/2025 | A red and white target with a black arrow  AI-generated content may be incorrect. I can explain what genetic drift is, describe how it affects populations over time, and compare it to other evolutionary mechanisms such as natural selection.A green square with a white check mark  AI-generated content may be incorrect. I can define genetic drift and identify its two main components | Probing question: "What happens to a population's genetic diversity if a natural disaster drastically reduces its size?" | * Present a clear definition of genetic drift and its importance in evolution | * Show a short video clip illustrating the effects of bottleneck events on animal populations. * A discussion on the video | Group discussion on common misconception: Students may confuse genetic drift with natural selection; clarify that genetic drift is a random process, while natural selection is based on fitness. | | Worksheet on Genetic drift and theory of natural selection | | TOTD- One key takeaway about genetic drift and one question they still have. |
| Friday  08/15/2025 | I can summarize the concepts of antibiotic resistance and genetic drift, explain how each works, andDescribe the roles of genetic drift and natural in evolution. | Summarize the concept of Antibiotic resistance and genetic drift | | Jeopardy game for 150 points | | | | Drift Detective — Scenario Cards: For each case, decide:   1. Type: Genetic Drift, Natural Selection, or Other 2. If Drift → Bottleneck Effect or Founder Effect 3. Give a short explanation (1–2 sentences) | |