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| **Standards:** * SB6: Students will investigate and understand that organisms are composed of cells.
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|  | **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
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| Monday08/18/2025 | ***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 |
| Tuesday08/19/2025 | ***C:\Users\thiyasr\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FEF22E5.tmp*** I can understand the lysogenic cycle of a virusA 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)*** |
| Wednesday08/13/2025 | ***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 vocabularyDefine Lytic & Lysogenic cycles |
| Thursday08/13/2025 | 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. |
|  Friday08/15/2025 | I can summarize the concepts of antibiotic resistance and genetic drift, explain how each works, and Describe 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)
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