

Academy of Richmond County

Teacher: Mrs. Appajodu Subject: Science Course: Biology Date(s): August 18th to August 22nd



Standards: <ul style="list-style-type: none"> SB6: Students will investigate and understand that organisms are composed of cells. 							
	Pre-Teaching 🎯 Learning Target ✅ Success Criteria 1 ✅ Success Criteria 2	Activation of Learning <i>(5 min)</i>	Focused Instruction <i>(10 min)</i> <i>*I DO</i>	Guided Instruction <i>(10 min)</i> <i>*WE DO</i>	Collaborative Learning <i>(10 min)</i> <i>*YOU ALL DO</i>	Independent Learning <i>(10 min)</i> <i>*YOU DO</i>	Closing <i>(5 min)</i>
		<ul style="list-style-type: none"> Do Now Quick Write* Think/Pair/Share Polls Notice/Wonder Number Talks Engaging Video Open-Ended Question 	<ul style="list-style-type: none"> Think Aloud Visuals Demonstration Analogies* Worked Examples 	<ul style="list-style-type: none"> Call/Response Probing Questions Graphic Organizer Digital Whiteboard PPT/Video 	<ul style="list-style-type: none"> Discussions* Expert Groups Labs Stations Think/Pair/Share Create Visuals 	<ul style="list-style-type: none"> Written Response* Digital Portfolio Presentation Canvas Assignment Choice Board Independent Project Portfolio 	<ul style="list-style-type: none"> Group Discussion Exit Ticket 3-2-1 Parking Lot Journaling* Nearpod
Monday 08/18/2025	🎯 I can understand the lytic cycle of a virus ✅ 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	🎯 I can understand the lysogenic cycle of a virus ✅ Students will explain the stages of lysogenic cycle of a bacteriophage	Probing question- "What are the 5 stages of a lytic cycle?"	<ul style="list-style-type: none"> 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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Wednesday 08/13/2025	Students will be able to compare the lytic and lysogenic cycles of viral reproduction. 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	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. 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?"	<ul style="list-style-type: none"> Present a clear definition of genetic drift and its importance in evolution 	<ul style="list-style-type: none"> 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, 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)	