

Academy of Richmond County

Teacher: Mrs. Appajodu Subject: Science Course: Biology Date(s): September 8th to Sept. 12th



Standards:












- SB5 a: Explain how the fossil record provides evidence for evolution.
- SB5 e: Analyze how different organisms have evolved over time based on fossil evidence.
- SB6: Analyze and interpret data to construct explanations.
- SB6: Engage in argument from evidence.

	Pre-Teaching Learning Target Success Criteria	Activation of Learning (5 min)	Focused Instruction (10 min) <i>*I DO</i>	Guided Instruction (10 min) <i>*WE DO</i>	Collaborative Learning (10 min) <i>*YOU ALL DO</i>	Independent Learning (10 min) <i>*YOU DO</i>	Closing (5 min)
Monday 09/08/2025	Students will be able to analyze fossil evidence to infer evolutionary relationships among species. Students will complete a worksheet where they will analyze provided fossil evidence, draw conclusions about evolutionary relationships, and present their findings to the class.	DO NOW! - "How can we determine the evolutionary relationships between different species using fossils?"	<ul style="list-style-type: none"> • Explain how scientists use fossils to identify common ancestors. • Present examples of fossils from different eras and their importance. EVIDENCE OF EVOLUTION.pptx	<ul style="list-style-type: none"> • Divide students into small groups and provide each with a set of fossil images. • Provide students with activity sheets and clear guidelines to perform the activity. • Monitor discussions and provide feedback to ensure understanding. 	Evidence of Evolution Lab 1. Evidence of Evolution Lab.pdf		Review questions on today's topic.
Tuesday 09/09/2025	Students will be able to explain how environmental factors can drive evolutionary change, specifically focusing on the impact of fossils. Students will create a visual presentation that illustrates the relationship between environmental limitations, fossil evidence, and evolutionary changes in a specific species. They will include examples and evidence to support their claims, evidence and explaining its significance.	Think-Pair-Share: "How do you think environmental changes can affect the evolution of a species?" (Instruction-Write 3 key points on the above question)	Evidence of Common Ancestry and Diversity PHYLOGENY.pptx	<u>Cladogram Activity</u> <ul style="list-style-type: none"> • Assign students to research a specific species and create a visual presentation that connects environmental limitations to evolutionary changes observed in fossil records. • Set clear expectations for the presentation including the need for evidence and claims supported by research. 2. cladogram-student-e			"Exit ticket"- students must write down one new thing they learned about the connection between environmental factors and evolution.

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Wednesday 09/10/2025	<div> Students will be able to engage in argument from evidence regarding the synthesis of fossil evidence and the environmental limitations that affect fossil records.</div> <div> Students will participate in a debate where they provide evidence to support their arguments about how environmental factors limit the fossil record synthesis.</div>	Probing Question - "If you were a paleontologist, what environmental factors would you consider when interpreting fossil evidence?"	<ul style="list-style-type: none">An interactive lecture using visuals, including diagrams of fossilization and the geological time scale.Encourage students to take notes and ask questions.	<ul style="list-style-type: none">Assign students to write a reflective essay where they argue how environmental limitations impact fossil evidence synthesis.Provide a rubric outlining expectations for argument clarity, use of evidence, and understanding of concepts. <div> Wednesday - Env.limitations& fossil</div>			Share one new insight you gained about fossil evidence and environmental factors.
Thursday 09/11/2025	<div> Students will work collaboratively to analyze fossil evidence, identify patterns of similarity and difference, and construct hypotheses about evolutionary relationships.</div> <div> Students will participate in a debate where they provide evidence to support their arguments about how environmental factors limit the fossil record synthesis.</div>	Recap the previous day activity and continue with day-2 rubrics <div> 4. Fossil Evidence Activity.docx</div>	<u>Group Work:</u> <ul style="list-style-type: none">Examine the fossils carefully. Identify key features that change over time (limb structure, skull shape, size, teeth, etc.) Record observations in a comparison chart.Infer the order of evolutionary change and construct a cladogram <u>Rubrics:</u> <ul style="list-style-type: none">Accurate identification of traits and fossil evidence – 3 POINTSLogical reasoning behind the cladogram – 2 POINTSClarity of written report – 3 POINTSGroup Presentation – 2 POINTSCollaboration within the group – 2 POINTSCladogram and other documentation – 3 POINTS				Share findings in a short class presentation (3–5 minutes).
Friday 09/12/2025	<div> Students will be able to explain the various evidence that support the theory of evolution and analyze how environmental limitations influence the survival and adaptation of species.</div> <div> Students can identify and describe key evidence of evolution such as fossil records, comparative anatomy, and genetic similarities. They can analyze how environmental limitations can drive evolutionary changes over time.</div>	Test on Evidence of Evolution and environmental limitations on fossil evidence <div> TEST Evidence of Evolution.pdf</div>				Mind map to summarize the content.	