

Name: Kristoffer Van Atten		Grading Quarter: Q1	Week Beginning: 8/21/2023
School Year: 23-24		Subject: AP Environmental Science	
Monday	Notes:	<p>Objective: SWBAT Explain the steps and reservoir interactions in the phosphorus cycle.</p> <ul style="list-style-type: none"> <li>ERT-1.F.1 The phosphorus cycle is the movement of atoms and molecules containing the element phosphorus between sources and sinks.</li> <li>ERT-1.F.2 The major reservoirs of phosphorus in the phosphorus cycle are rock and sediments that contain phosphorus-bearing minerals</li> <li>ERT-1.F.3 There is no atmospheric component in the phosphorus cycle, and the limitations this imposes on the return of phosphorus from the ocean to land make phosphorus naturally scarce in aquatic and many terrestrial ecosystems. In undisturbed ecosystems, phosphorus is the limiting factor in biological systems.</li> </ul> <p>Lesson Overview: Students will draw the short- and long-term cycles of the phosphorus cycle, pointing out the human impacts on both cycles. Students will apply the information learned to a short FRQ</p>	Academic Standards: ERT-1.F.1-3
Tuesday	Notes:	<p>Objective: SWBAT Explain how solar energy is acquired and transferred by living organisms.</p> <p>Lesson Overview: Students watch a short video with a lab demonstrating NPP and GPP and answer questions based on what they watched and acquired knowledge of the content. Students will apply the information learned to a short FRQ</p>	Academic Standards: ENG-1.A.1-5
Wednesday	Notes:	<p>Objective: SWBAT Explain how energy flows and matter cycles through trophic levels and determine how the energy decreases as it flows through ecosystems.</p> <p>Lesson Overview: Students practice the 10% rule using biomass, population, population and energy pyramids to demonstrate that only about 10% of energy is available for the next highest trophic level. Students discuss the implications of this fact.</p>	Academic Standards: ENG-1.B.1-3 ENG-1.C.1-2
Thursday	Notes:	<p>Objective: SWBAT Describe food chains and food webs, and their constituent members by trophic level.</p> <p>Lesson Overview: Students draw several food chains and webs and take a long FRQ practice exam on Unit 1.</p>	Academic Standards: ENG-1.D.1-2

Friday	Notes:	<p>Objective: SWBAT Demonstrate understanding of the various biomes in the biosphere by presenting group projects in which they teach particular biomes and the threats to each biome, asking quiz questions at the end.</p> <p>Lesson Overview: Students present group projects on Biomes</p>	Academic Standards: Foundational
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