

UNIT 1: THE LIVING WORLD: ECOSYSTEMS

In this unit, we will be exploring the concept that ecosystems are the result of biotic and abiotic interactions..

[Initial Audit](#)

[Final Audit](#)

[Topic Summary](#)

[Quizlet](#)

[One Pager](#)

[FRQ Task Verbs](#)

Date	Essential Questions/Standards	Activities	Homework
<p>Monday 9/18 Tuesday 9/19</p>	<p>ERT-1.A Explain how the availability of resources influences species interactions</p> <ul style="list-style-type: none"> ★ How does the availability of resources influence species interactions? 	<ul style="list-style-type: none"> ★ 1.1 Species Interactions Slides ★ Symbiosis and Energy Graphing ★ HHMI Niche Partitioning Activity 	<ul style="list-style-type: none"> ★ Finish Niche Partitioning Activity <p>Flipped Videos:</p> <ul style="list-style-type: none"> ★ 1.2 Terrestrial Biomes ★ 1.3 Aquatic Biomes ★ Guided notes
<p>Wednesday 9/20 Thursday 9/21</p>	<p>ERT-1.B Describe the global distribution and principal environmental aspects of terrestrial biomes.</p> <p>ERT – 1.C Describe the global distribution and principal environmental aspects of aquatic biomes.</p> <ul style="list-style-type: none"> ★ What are biomes? ★ What are the major terrestrial biomes? ★ How do the biomes compare to one another? ★ Practice FRQ (#2. Part A only) 	<ul style="list-style-type: none"> ★ Terrestrial Biomes Slides ★ Aquatic Biomes Slides ★ Biome Speed Dating Activity (Teacher Folder) ★ Additional Slides - Students can use to fill in their speed dating profile with: Terrestrial Biomes, Aquatic Biomes ★ Post Biome activity Assignment 	<ul style="list-style-type: none"> ★ Finish Post Biome activity Assignment if needed. <p>Flipped Videos **LONG</p> <ul style="list-style-type: none"> ★ 1.4 Carbon Cycle ★ 1.5 Nitrogen Cycle ★ 1.6 Phosphorous Cycle ★ 1.7 Hydrologic Cycle (assigned first day, just here again for reference) ★ Guided notes
<p>Friday 9/22 Tuesday 9/26</p>	<p>ERT – 1.D Explain the steps and reservoir interactions in the carbon cycle</p>	<ul style="list-style-type: none"> ★ Slides, reviewing Carbon Cycle, Phosphorus 	<p>None</p>

	<p>ERT – 1.F Explain the steps and reservoir interactions in the phosphorus cycle.</p> <p>ERT – 1.G Explain the steps and reservoir interactions in the hydrologic cycle.</p> <ul style="list-style-type: none"> ★ What nutrients are required for life? ★ How do we get and recycle these nutrients? 	<p>Cycle, Nitrogen Cycle, and Hydrologic Cycle</p> <ul style="list-style-type: none"> ★ Biogeochemical Cycles Flipchart 	
<p>Wednesday 9/27 Thursday 9/28</p>	<p>ERT – 1.E Explain the steps and reservoir interactions in the nitrogen cycle.</p> <ul style="list-style-type: none"> ★ What nutrients are required for life? ★ How do we get and recycle these nutrients? 	<ul style="list-style-type: none"> ★ Serengeti HHMI 	<p>Flipped Videos</p> <ul style="list-style-type: none"> ★ 1.8 - Primary Productivity ★ 1.9 and 1.10 - Trophic Levels and the 10% rule ★ Guided notes
<p>Friday 9/29 Monday 10/2</p>	<p>ENG – 1.A Explain how solar energy is acquired and transferred by living organisms.</p> <p>ENG – 1.B Explain how energy flows and matter cycles through trophic levels.</p> <p>ENG – 1.C Determine how energy decreases as it flows through ecosystems.</p> <p>ENG – 1.D Describe food chains and food webs, and their constituent members by trophic level.</p> <ul style="list-style-type: none"> ★ What are food chains and food webs? ★ How does energy transfer through ecosystems? 	<ul style="list-style-type: none"> ★ Slides reviewing Primary Productivity, Trophic Levels and the 10%Rule ★ Understanding Primary Productivity Worksheet ★ APES Food For Thought Trophic Levels Calculations ★ Primary Productivity Practice Problems ★ Eating at a lower trophic level 	<p>Flipped Videos</p> <ul style="list-style-type: none"> ★ 1.11 Food webs and chains video ★ Guided Notes
<p>Tuesday 10/3 Wednesday 10/4</p>	<p>ENG – 1.A Explain how solar energy is acquired</p>	<ul style="list-style-type: none"> ★ Review Slides Food Chains 	<p>Begin One Pager</p>

	<p>and transferred by living organisms.</p> <p>ENG – 1.B Explain how energy flows and matter cycles through trophic levels.</p> <p>ENG – 1.C Determine how energy decreases as it flows through ecosystems.</p> <p>ENG – 1.D Describe food chains and food webs, and their constituent members by trophic level.</p> <ul style="list-style-type: none"> ★ What are food chains and food webs? ★ How does energy transfer through ecosystems? 	<ul style="list-style-type: none"> ★ and Food Webs Building Food Chains and Webs HHMI 	
<p>Thursday 10/5 Friday 10/6</p>	<ul style="list-style-type: none"> ★ Review 	<p>Review</p> <ul style="list-style-type: none"> ★ Biome Climatogram Match Activity ★ One Pager ★ Quizlet ★ Kahoots Kahoot to review Symbiosis 	<p>Review For Test</p> <ul style="list-style-type: none"> ★ One Pager
<p>Tuesday 10/10 Wednesday 10/11</p>	<p>Test</p>	<ul style="list-style-type: none"> ★ Test 	<ul style="list-style-type: none"> ★ 2.1 Introduction to Biodiversity ★ Guided Notes