

AP Environmental Science Scope & Sequence

Days	Unit	Standard(s)/Outcome(s)	Essential/Guiding Questions
8	<p>Unit 1 - The Living World: Ecosystems <i>You'll begin to explore a view of planet Earth as one system made up of regional ecosystems composed of interdependent environmental features, processes, and relationships between species.</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Energy Transfer ● Interactions Between Earth Systems <p><u>SCIENCE PRACTICES:</u></p> <ul style="list-style-type: none"> ● Concept Explanation ● Visual Representations ● Environmental Solutions 	<p>How does energy change forms?</p> <p>How old is the water you drink?</p>
6	<p>Unit 2 - The Living World: Biodiversity <i>You'll learn about the importance of biodiversity within ecosystems and the impact of outside factors on the evolution of organisms.</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Interactions Between Earth Systems <p><u>SCIENCE PRACTICES:</u></p> <ul style="list-style-type: none"> ● Concept Explanation ● Text Analysis ● Data Analysis 	<p>Can an invasive species be considered a native species if it occupies a place for a long time?</p>
7	<p>Unit 3 - Populations <i>You'll examine how populations within ecosystems change over time, and the factors that affect population growth.</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Interactions Between Earth Systems ● Interactions Between Different Species and the Environment <p><u>SCIENCE PRACTICES:</u></p>	<p>How do changes in habitats influence changes in species over time?</p> <p>How is educational</p>

		<ul style="list-style-type: none"> ● Concept Explanation ● Data Analysis ● Mathematical Routines ● Environmental Solutions 	opportunity for women connected to human population changes?
6	<p>Unit 4 - Earth Systems and Resources <i>You'll study the natural components that make up the environment, from geologic features to the atmosphere and climate.</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Energy Transfer ● Interactions Between Earth Systems <p><u>SCIENCE PRACTICES:</u></p> <ul style="list-style-type: none"> ● Concept Explanation ● Visual Representations ● Scientific Experiments ● Environmental Solutions 	<p>How does energy from the sun influence the weather?</p> <p>How can earthquakes be predicted?</p>
13	<p>Unit 5 - Land and Water Use <i>You'll examine how humans use and consume natural resources, and the ways in which we disrupt ecosystems, both positively and negatively.</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Interactions Between Different Species and the Environment ● Sustainability <p><u>SCIENCE PRACTICES:</u></p> <ul style="list-style-type: none"> ● Concept Explanation ● Text Analysis ● Scientific Experiments ● Data Analysis ● Environmental Solutions 	<p>How does your use of natural resources impact the world?</p> <p>Why are sustainable practices difficult to implement?</p>
11	<p>Unit 6 - Energy Resources and Consumption <i>You'll learn about renewable and nonrenewable sources of</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Energy Transfer <p><u>SCIENCE PRACTICES:</u></p> <ul style="list-style-type: none"> ● Concept Explanation ● Visual Representations ● Data Analysis 	Why are fossil fuels the most widely used energy resources if they are nonrenewable?

	<i>energy, where they're used, and their impact on the environment.</i>	<ul style="list-style-type: none"> ● Mathematical Routines ● Environmental Solutions 	
6	<p>Unit 7 - Atmospheric Pollution</p> <p><i>You'll learn more about air pollution, including how human actions can cause it, and you'll analyze legislation intended to regulate emissions and improve air quality.</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Sustainability <p><u>SCIENCE PRACTICES:</u></p> <ul style="list-style-type: none"> ● Visual Representations ● Text Analysis ● Scientific Experiments ● Data Analysis ● Environmental Solutions 	Where does air pollution go once it is airborne?
14	<p>Unit 8 - Aquatic and Terrestrial Pollution</p> <p><i>You'll examine the impact of pollution on ecosystems and learn how to determine its source.</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Interactions Between Different Species and the Environment ● Sustainability <p><u>SCIENCE PRACTICES:</u></p> <ul style="list-style-type: none"> ● Concept Explanation ● Visual Representations ● Scientific Experiments ● Data Analysis ● Mathematical Routines ● Environmental Solutions 	<p>How does pollution impact your health?</p> <p>How can you decrease your waste?</p>
14	<p>Unit 9 - Global Change</p> <p><i>You'll come to understand the global impact of local and regional human activities and evaluate and propose solutions.</i></p>	<p><u>BIG IDEAS:</u></p> <ul style="list-style-type: none"> ● Interactions Between Different Species and the Environment ● Sustainability <p><u>SCIENCE PRACTICES:</u></p> <ul style="list-style-type: none"> ● Concept Explanation ● Visual Representations 	<p>Why are laws created to protect endangered species?</p> <p>How can local human activities have a global impact?</p>

		<ul style="list-style-type: none">● Text Analysis● Scientific Experiments● Data Analysis● Mathematical Routines● Environmental Solutions	
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