



Environmental Science Pacing Guide

Crosscutting Concepts: Systems and System Models, Stability and Change, Cause and Effect

Humans on Planet Earth

Estimated time: 10 weeks

Anchoring Phenomenon	Standard	Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
<ul style="list-style-type: none"> • Human population changes over time • Statues Damaged Over Time 	<p>SEV3. a, b, c SEV4. a, d SEV5. a, b, c</p>	<p>Humans on Planet Earth</p>	<p>From A Framework for K-12 Science Education:</p> <p style="text-align: center;"><i>By the end of grade 12:</i></p> <p>ESS3.A: Natural Resources Humans depend on Earth’s land, ocean, atmosphere, and biosphere for many different resources, including air, water, soil, minerals, metals, energy, plants, and animals.</p> <p>ESS3.C: Human Impacts on Earth Systems Recorded history, as well as chemical and geological evidence, indicates that human activities in agriculture, industry, and everyday life have had major impacts on the land, rivers, ocean, and air.</p> <p>ESS3.D: Global Climate Change Humans are now so numerous and resource dependent that their activities</p>	<ul style="list-style-type: none"> • Engaging in argument from evidence • Constructing explanations • Obtaining, evaluating, and communicating information • Analyzing and interpreting data 	<p>By the end of this unit, students are using the following language in their speaking and writing:</p> <ul style="list-style-type: none"> • Renewable resources • Nonrenewable resources • Sustainability • Population • Green Revolution • Desertification • Monocultures • Energy consumption • Fertility rates • Mortality rates • Global ecosystem



			affect every part of the environment, from outer space and the stratosphere to the deepest ocean.		
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This instructional segment will connect to the culminating performance task of designing and defending a personal sustainability plan.