



High School Environmental Science Curriculum Map

These are bundles of core ideas from the Georgia Standards of Excellence related to an anchoring phenomenon.
This document is part of a framework that includes lessons and resources.

Instructional Segment	Planet Earth	Rhythms of Planet Earth	Humans on Planet Earth	Sustaining Planet Earth
Estimated Time	8 weeks	8 weeks	10 weeks	10 weeks
Crosscutting Concepts	<ul style="list-style-type: none"> • Patterns • Systems and System models • Energy and matter • Stability and Change • Cause and effect • Structure and function 	<ul style="list-style-type: none"> • Systems and system models • Patterns • Stability and change • Cause and effect • Structure and function 	<ul style="list-style-type: none"> • Pattern • Systems and system model • Stability and change • Cause and effect • Energy and matter 	<ul style="list-style-type: none"> • Patterns • Systems and system models • Stability and change • Cause and effect • Energy and matter
Anchoring Phenomenon	Earth Rise Picture from the Apollo 8 mission on Christmas Eve	Time lapse- Photosynthesis seen from space Historical fluctuations in climate pre and post-Industrial Revolution Article	Humans gain dominion over Earth video	What happened to the Chattahoochee?
Core Ideas	<ul style="list-style-type: none"> • Biological organization • Laws of Thermodynamics • Complexity within ecosystems • Value of Biodiversity • Ecological Succession 	<ul style="list-style-type: none"> • Biogeochemical cycles • Chemical and physical properties of aquatic ecosystems • Short-term and long-term climate changes 	<ul style="list-style-type: none"> • Renewable and non-renewable energy • Natural resource allocation and use • Impact of human population growth on resources and 	<ul style="list-style-type: none"> • Sustainable energy • Solutions to reduce human impact on the environment • Quality of life in developing and developed

			<p>energy</p> <ul style="list-style-type: none"> • Comparison of developing and developed countries • Ecological effects of human innovations 	<p>countries</p> <ul style="list-style-type: none"> • Ecological effects of human innovations • Political and legal
Science and Engineering Practices	<ul style="list-style-type: none"> • Developing and using models • Constructing explanations • Asking questions 	<ul style="list-style-type: none"> • Planning and carrying out an investigation • Analyzing and interpreting data • Asking questions 	<ul style="list-style-type: none"> • Asking questions • Constructing explanations • Analyzing and interpreting data • Engaging in argument from evidence 	<ul style="list-style-type: none"> • Asking questions • Planning and carrying out investigations • Constructing explanations • Analyzing and interpreting data
GSE	SEV1. a, b, d; SEV2. c, d	SEV1. c, e; SEV2. a, b, c	SEV3. a, b, c; SEV4. a, c; SEV5. a, b, c	SEV3. d; SEV4. b SEV5. d