		AP Environm	ental Science	
Unit	Tania	1	Time : 137h 34m / Lessons : 147 / Ac	tivities : 432
Unit	Торіс	The AP+ Environmental Science Exam	1 Identify components of the AP+ Environmental Science course	10m
Introduction to AP* Environmental Science	Topic 1: Navigating the Course			20m
		Resources to use	Ourze the resources of the *AP Environmental science course	30m
				1h 4m
		Scientific Inquiry	2. Differentiate between an observation and an inference	
			3. Explain the relationship between variables and controls in an experiment	
			4. Compare and contrast scientific theories and scientific laws	
			1. Describe the use of various common laboratory tools	54m
		Laboratory Tools and Safety	2. Differentiate between light, dissecting, and electron microscopes	
			3. Identify safety equipment found in a science lab	
			4. Explain the importance of following common lab rules and procedures	
			1. Explain the purpose of utilizing the metric system in scientific measurement	
		Scientific Measurement	2. Identify the basic SI units utilized in scientific measurement	1h.33m
			3. Calculate values utilizing the metric conversion process	
	Topic 1: Scientific Method		4. Describe the use of significant figures and rounding in scientific measurement	
			1. Identify components of critical thinking	
		Critical Thinking in Science	2. Explain the importance of critical thinking to science	47m
			3. Evaluate three everyday uses of critical thinking	
			1. Summarize the work of famous environmental scientists of the past	
		Environmental Scientists and Ecologists	2. Examine the contributions of environmental scientists to today's environment	2h 19m
			3. Skills Used: Making Predictions, Identifying Trends	
		Careers in Environmental Science	1. Describe the job of an environmental scientist	- 49m
			2. Explore additional careers in environmental science	
			3. Discuss possible future careers and fields in environmental science	
Unit 1: Scientific Method			4. Skills Used: Identifying Trends, Making Predictions, Compare and Contrast,	
& Introduction to Environmental Science			Interpreting Observations Topic Test	40m
			1. Define the components of environmental science	
		The Study of Environmental Science	2 Describe the interdependence of organisms in the environment	- 1h 1m
			2. Discuss human impacts on the Earth	
			4. Skills Used: Making Logical Connections, Understanding Cause and Effect,	
		Governments and Business	Interpreting Observations	
			Instrate now conservation errors have positively impacted ecosystems	
			2. Compare the effects of government sanctioned activities on ecosystems	41m
			3. Assess the impact of government and business on energy efficiency 4. Skills used: Making logical connections interpreting observations supporting	
	Topic 2: Introduction to Environmental Science		claims, making predictions, compare and contrast	
			1. Describe the influence that scientific knowledge has on society	
		pic 2: Introduction to Informed Policy vironmental Science	2. Identify contributing factors to environmental policy decisions	43m
			regarding resource use	
			 Skills used: Compare and contrast, making logical connections, supporting claims, understanding cause and effect 	
			I. Assess the potential environmental consequences of policies that address social problems	
		Impact of Policy	2. Evaluate the effects of policies on global and local ecosystems	1h.3m
		Impact of Policy	3. Propose possible effects of policies regarding sustainable land use	- msm
			 Skills used: Supporting claims, plotting trends, making predictions, interpreting observations, compare and contrast 	
			1. Illustrate the impact of major milestones in environmental science	
			2. Predict possible milestones in environmental policy	
		Milestones and Turning Points	3. Describe the efforts of various countries to reduce resource and ecological depletion	42m
			4. Skills used: Making valid criticisms, understanding cause and effect, researching	
			Two technology, making predictions, identifying trends	40m
			1. Describe the levels of organization in the biosphere	
			2. Identify the major biomes found on Earth	– 1h 5m
		Ecology 101	3 Compare and contrast major ecosystems found on Earth	
			Scille Lead: Create a Flow Chart, Compare and Contrast	
			Anno oseu. Create a now chart, compare and contrast	
			I. Identify factors that can cause change within an ecosystem	

		Factory 102	2. Evaluate the effects of different factors on ecosystem stability	50
		Ecology 102	3. Describe changes that can occur within an ecosystem	59m
			4. Skills Used: Understanding Cause and Effect, Making Logical Connections,	1
			Explain how relationships between organisms in an ecosystem contribute to concrete from within a food chain	
	Topic 1: Introduction to		2. Analyze the effects of changes in populations on food web dynamics	
	Leology	Trophic Levels and Food Webs	3. Differentiate between three types of energy pyramids	1h 32m
			4. Analyze relationships between producers, consumers and decomposers in an	
			5. Skills Used: Compare and Contrast, Create a Structure Diagram, Understanding	
			1. Describe the development of the theory of evolution	
			2. Explain the theory of evolution	
		Adaptation	3. Relate adaptations of organisms to resource competition	1h 17m
Linit 2: Life on Forth			4. Skills Used: Create a Timeline, Making Logical Connections	
Ecology and Habitats		Global Connection: Why Invasive Species	1. Relate the ability of invasive species to thrive in their new habitat to resource	45m
		Inrive	Competition. Topic Test	40m
			1. Describe three types of interactions between organisms in an ecosystem	
			2. Compare and contrast mutualism, parasitism, and commensalism	
		Organismal Relationships	3. Explain the effects of competitive exclusion on an ecosystem	1h11m
			4. Skills Used: Compare and Contrast, Understanding Cause and Effect	
			1. Analyze the effects of local evolution or migration on an ecosystem	
			2. Predict the impact of removing or adding organisms on a food chain	
		Biodiversity	3 Explain how changes in biodiversity impact an ecosystem	1h 2m
	Topic 2: Habitats		4 Skills Used: Making Predictions, Making Logical Connections	
			1. Differentiate between biotic and abiotic factors in various ecosystems	<u> </u>
			2 Explain the adaptations of indigenous species to their respective ecosystems	52m
			3. Skille Used: Compare and Contract	
		으리지	1. Compare and contract the components of marine and freehwater ecosystems	
		Aquatic Habitats	2 Differentiate between terrestrial and aquatic energy pyramids	53m
			3 Skills Used: Compare and Contrast	5511
		Topic Test		40m
*AP Test Pren	*AP Review	Units 1 & 2	1 Practice test taking skills that may be utilized on *AP Environmental Science exam	1h 10m
, a reservep			1 Describe various cycles of matter that take place on Earth	
		The Cycles of Matter	2 Evaluate the role played by cycles in sustaining life	- 48m
			3 Explain the change in energy that occurs between each cycle in an ecosystem	
		Effects of Cycles on Ecosystems	1 Explain how fluctuations in abiotic cycles influence populations	
			······································	46m
		Effects of Cycles on Ecosystems	2. Describe the movement of carbon compounds through a food web	46m
		Effects of Cycles on Ecosystems	2. Describe the movement of carbon compounds through a food web 3. Describe the effects of abiotic cycles on local ecosystems	46m
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	Topic 1: Earth's Cycles	Effects of Cycles on Ecosystems	2. Describe the movement of carbon compounds through a food web 3. Describe the effects of abiotic cycles on local ecosystems 1. Discuss the main forms of energy in an ecosystem 2. Explain how energy is transformed and conserved as it changes from one form to another 3. Describe the impact of energy transformations on ecosystems 4. Skills used: Making logical connections, creating diagrams. compare and contrast	46m - 1h 4m
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	Topic 1: Earth's Cycles	Effects of Cycles on Ecosystems Energy Transformation Energy Transfer	2. Describe the movement of carbon compounds through a food web 3. Describe the effects of abiotic cycles on local ecosystems 1. Discuss the main forms of energy in an ecosystem 2. Explain how energy is transformed and conserved as it changes from one form to another 3. Describe the impact of energy transformations on ecosystems 4. Skills used: Making logical connections, creating diagrams, compare and contrast 1. Outline the flow of energy in an ecosystem 2. Describe how the amount of available energy changes between trophic levels in a food chain 3. Explain the relationship between entropy and usable energy in a food chain	46m 1h 4m 1h 8m
	Topic 1: Earth's Cycles	Effects of Cycles on Ecosystems Energy Transformation Energy Transfer	2. Describe the movement of carbon compounds through a food web 3. Describe the effects of abiotic cycles on local ecosystems 1. Discuss the main forms of energy in an ecosystem 2. Explain how energy is transformed and conserved as it changes from one form to another 3. Describe the impact of energy transformations on ecosystems 4. Skills used: Making logical connections, creating diagrams, compare and contrast 1. Outline the flow of energy in an ecosystem 2. Describe how the amount of available energy changes between trophic levels in a food chain 3. Explain the relationship between entropy and usable energy in a food chain 4. Skills used: Making logical connections, creating a flow chart	46m 1h 4m 1h 8m
	Topic 1: Earth's Cycles	Effects of Cycles on Ecosystems Energy Transformation Energy Transfer	2. Describe the movement of carbon compounds through a food web 3. Describe the effects of abiotic cycles on local ecosystems 1. Discuss the main forms of energy in an ecosystem 2. Explain how energy is transformed and conserved as it changes from one form to another 3. Describe the impact of energy transformations on ecosystems 4. Skills used: Making logical connections, creating diagrams, compare and contrast 1. Outline the flow of energy in an ecosystem 2. Describe how the amount of available energy changes between trophic levels in a food chain 3. Explain the relationship between entropy and usable energy in a food chain 4. Skills used: Making logical connections, creating a flow chart 1. Identify various causes of succession in ecosystems	46m 1h 4m
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	Topic 1: Earth's Cycles	Effects of Cycles on Ecosystems Energy Transformation Energy Transfer Succession Topic Test	 Describe the movement of carbon compounds through a food web Describe the effects of abiotic cycles on local ecosystems Discuss the main forms of energy in an ecosystem Explain how energy is transformed and conserved as it changes from one form to another Describe the impact of energy transformations on ecosystems Skills used: Making logical connections, creating diagrams, compare and contrast Outline the flow of energy in an ecosystem Describe how the amount of available energy changes between trophic levels in a food chain Explain the relationship between entropy and usable energy in a food chain Skills used: Making logical connections, creating a flow chart Identify various causes of succession in ecosystems Differentiate between primary and secondary succession in ecosystems Explain the importance of succession in maintaining ecosystems 	46m 1h 4m 1h 8m 49m
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	Topic 1: Earth's Cycles	Effects of Cycles on Ecosystems Energy Transformation Energy Transfer Succession Topic Test	 Describe the movement of carbon compounds through a food web Describe the effects of abiotic cycles on local ecosystems Discuss the main forms of energy in an ecosystem Explain how energy is transformed and conserved as it changes from one form to another Describe the impact of energy transformations on ecosystems Skills used: Making logical connections, creating diagrams, compare and contrast Outline the flow of energy in an ecosystem Describe how the amount of available energy changes between trophic levels in a food chain Explain the relationship between entropy and usable energy in a food chain Skills used: Making logical connections, creating a flow chart Identify various causes of succession in ecosystems Differentiate between primary and secondary succession in ecosystems Explain the importance of succession in maintaining ecosystems Explain the features of systems and cycles including open and closed systems, positive and negative feedback. Recognize the implications to an environment due to growth rate 	46m 1h 4m 1h 8m 49m 40m
	Topic 1: Earth's Cycles	Effects of Cycles on Ecosystems Energy Transformation Energy Transfer Succession Topic Test Systems and Cycles	 Describe the movement of carbon compounds through a food web Describe the effects of abiotic cycles on local ecosystems Discuss the main forms of energy in an ecosystem Explain how energy is transformed and conserved as it changes from one form to another Describe the impact of energy transformations on ecosystems Skills used: Making logical connections, creating diagrams, compare and contrast Outline the flow of energy in an ecosystem Describe how the amount of available energy changes between trophic levels in a food chain Explain the relationship between entropy and usable energy in a food chain Skills used: Making logical connections, creating a flow chart Identify various causes of succession in ecosystems Differentiate between primary and secondary succession in ecosystems Explain the importance of succession in maintaining ecosystems Explain the features of systems and cycles including open and closed systems, positive and negative feedback Recognize the implications to an environment due to growth rate Apply the Gaia hypothesis for solving future environmental issues 	46m 1h 4m 1h 8m 49m 40m
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	Topic 1: Earth's Cycles	Effects of Cycles on Ecosystems Energy Transformation Energy Transfer Succession Topic Test Systems and Cycles Skills Lesson: Modeling Systems and Cycles	 Describe the movement of carbon compounds through a food web Describe the effects of abiotic cycles on local ecosystems Discuss the main forms of energy in an ecosystem Explain how energy is transformed and conserved as it changes from one form to another Describe the impact of energy transformations on ecosystems Skills used: Making logical connections, creating diagrams, compare and contrast Outline the flow of energy in an ecosystem Describe how the amount of available energy changes between trophic levels in a food chain Explain the relationship between entropy and usable energy in a food chain Skills used: Making logical connections, creating a flow chart Identify various causes of succession in ecosystems Differentiate between primary and secondary succession in ecosystems Explain the features of systems and cycles including open and closed systems, positive and negative feedback Recognize the implications to an environment due to growth rate Apply the Gaia hypothesis for solving future environmental issues Relate the components of a cycle or system to consequences of improving the environment Identify a system or cycle to be modeled Determine the main parts or processes sequentially 	46m 1h 4m 1h 8m 49m 40m 1h 10m

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			4. Model the main parts or processes of the system or cycle	
Unit 3: Life on Earth - Cycles and Systems		Systems of the Biosphere	1. Describe Earth's systems in terms of energy, matter, time and space	47m
			2. Explain the interactions between Earth's systems	
		Patterns in Systems	1. Describe various patterns found in the Earth system	49m
			2. Identify methods of measuring constancy and change in a system	
		Topic Test	Topic Test	40m
			1. Describe the composition of each layer of the Earth	
		Life and Earth's Crust	2. Explain the structure and function of the Earth's crust	1h 1m
			3. Evaluate the interdependence of Earth's crust and its organisms	
			4. Skills used: Create graph, map, chart	
		Global Connection: Recycling on Earth	1. Compare human recycling techniques to similar cycles in nature	45m
			1. Explain the theory of plate tectonics	
		Dista Tastaniaa	2. Relate the movement of the continents to changes in weather patterns	1h 5m
		Plate rectonics	3. Describe the impact of continental shifting on local environments	
			4. Skills used: Create graph, map, chart	
			1. Identify the factors responsible for mineral deposit distribution	
		Locating, Identifying, and Mining the	2. Explain the controlling factors of mineral exploitation	
		Resources in the Earth	3. Illustrate how waste generated from mineral resources affects the environment	In Ium
	Topic 3: Shaping Earth		4. Investigate the role of nonrenewable minerals in sustainability efforts	
			1. Identify uses of minerals	
			2. Compare and contrast various mineral extraction methods	
		Minerals and Mining	3. Explain the impact of mining on local populations	49m
		IGF GI	4. Describe the long-term consequences of large scale mineral extraction to the Earth	
			5. Skills used: Determining the cause and predicting the effect	
			1. Compare and contrast weathering and erosion	
		우리집 Weathering and Erosion	2. Distinguish between chemical and physical weathering	
			3. Describe the effects of natural erosion on the environment	1h 3m
			4. Explain the impact of artificial erosion on the environment	
			5. Skills used: Create graph, map. chart	
		Topic Test	Topic Test	40m
		ľ	1. Identify the characteristics used to define all biomes	
			2. Summarize the history of biomes on Earth	
		Characteristics of Biomes	3. Describe the impact of humanity on Earth's biomes	1h 7m
			4. Compare and contrast artificial and natural changes within a biome	
			5. Skills Used: Compare and Contrast, Understanding Cause and Effect, Identifying	
		Desert and Desert-Scrub Rinmes	Trends	
			1. Identify the characteristics of desert and desert-scrub biomes	
		Desert and Desert-Scrub Biomes	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments	44m
		Desert and Desert-Scrub Biomes	I. Identify the characteristics of desert and desert-scrub biomes Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Lised: Making Logical Connections. Compare and Contrast	44m
		Desert and Desert-Scrub Biomes	I. Identify the characteristics of desert and desert-scrub biomes Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chanarral biomes	44m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes	I. Identify the characteristics of desert and desert-scrub biomes Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Evaluate ways organisms have adapted to chaparral	44m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections	44m 40m
	Topic 1: Arid and Semi– Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections Skills Used: Making Logical Connections	44m 40m
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	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Z. Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Lised: Making Logical Connections	44m 40m 48m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert–Scrub Biomes The Chaparral Alpine and Taiga Biome	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Z. Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast J. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast	44m 40m 48m
	Topic 1: Arid and Semi– Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome	I. Identify the characteristics of desert and desert-scrub biomes Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Evaluate ways organisms have adapted to the tundra	44m 40m 48m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Z. Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections, Compare and Contrast	44m 40m 48m 42m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Z. Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections Skills Used: Making Logical Connections	44m 40m 48m 42m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra Topic Test	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections Topic Test	44m 40m 48m 42m 40m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra Topic Test	 Identify the characteristics of desert and desert-scrub biomes Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast Identify the characteristics of chaparral biomes Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections Identify the characteristics of the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast Identify the characteristics of the tundra Evaluate ways organisms have adapted to the tundra Skills Used: Making Logical Connections Topic Test Identify the characteristics of the savanna and grassland biomes 	44m 40m 48m 42m 40m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra Topic Test Savanna and Grassland Biomes	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Z. Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections Topic Test I. Identify the characteristics of the savanna and grassland biomes Sciented ways organisms have adapted to the savanna and grasslands	44m 40m 48m 42m 40m 47m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra Topic Test Savanna and Grassland Biomes	 Identify the characteristics of desert and desert-scrub biomes Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast Identify the characteristics of chaparral biomes Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections Identify the characteristics of the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast Identify the characteristics of the tundra Skills Used: Making Logical Connections Topic Test Identify the characteristics of the savanna and grassland biomes Evaluate ways organisms have adapted to the savanna and grasslands Skills Used: Making Logical Connections, Compare and Contrast 	44m 40m 48m 42m 40m 47m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra Topic Test Savanna and Grassland Biomes	I. Identify the characteristics of desert and desert-scrub biomes Z. Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Z. Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections Topic Test I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections Topic Test I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the savanna and grasslands Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of deciduous forests Skills Used: Making Logical Connections, Compare and Contrast	44m 40m 48m 42m 40m 47m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra Topic Test Savanna and Grassland Biomes Deciduous Forests	I. Identify the characteristics of desert and desert-scrub biomes Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections Topic Test I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections Topic Test I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of deciduous forests Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of deciduous forests Skills Used: Making Logical Connections, Compare and Contrast Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of deciduous forests Skills Used: Making Logical Connections, Compare and Contrast Skills Used: Making Logical Connec	44m 40m 48m 42m 40m 47m
	Topic 1: Arid and Semi- Arid Biomes	Desert and Desert-Scrub Biomes The Chaparral Alpine and Taiga Biome The Tundra Topic Test Savanna and Grassland Biomes Deciduous Forests	I. Identify the characteristics of desert and desert-scrub biomes Evaluate ways organisms have adapted to desert and desert-scrub environments Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of chaparral biomes Evaluate ways organisms have adapted to chaparral Skills Used: Making Logical Connections I. Identify the characteristics of the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Evaluate ways organisms have adapted to the alpine and taiga biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the tundra Skills Used: Making Logical Connections Topic Test I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of the savanna and grassland biomes Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of deciduous forests Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of deciduous forests Skills Used: Making Logical Connections, Compare and Contrast I. Identify the characteristics of deciduous forests Skills Used: Making Logical Connections Skill	44m 40m 48m 42m 40m 47m

		The Rainforest	2. Evaluate ways organisms have adapted to the rainforest	2h 15m
Unit 4: Life on Earth – Biomes and Ecosystems			3. Skills Used: Making Logical Connections	1
		Topic Test	Topic Test	40m
		Freshwater and Marine Biomes	I. Identify characteristics that are unique to each of the aquatic biomes Z. Compare and contrast the adaptations of organisms in the aquatic biomes to their respective environments S. Explain how human understanding of aquatic ecosystems has changed throughout history A. Skills lised: Compare and Contrast. Identifying Trends	- 54m
			1. Compare and contract the characteristics of pools, ponds, and lakes	
		Pools, Ponds and Lakes	2 Differentiate littoral and rinarian areas	
			3 Describe the cause of eutronhication and its effects on the environment	48m
			A Assess the relationships between organisms that live in pools, ponds, and lakes	-
	Topic 3: Freshwater Ecosystems	Streams and Rivers	1. Compare and contrast the characteristics of streams and rivers 2. Describe the impact of current and oxygen content on biodiversity in streams and rivers 2. The impact of current integrated	- 53m
			S. Explain various ways numaris impact rivers and streams	
			A. Assess the relationships between organisms that live in streams and rivers Differentiate various times of water de	
		Wetlands	2. Distinguish between the main types of water found in wetlands	58m
			3. Assess the biodiversity of organisms found in wetlands	
			4. Explain how the wetlands filter and clean water	
		Topic Test	Topic Test 1. Explore the relationship between technology and new developments in oceanography	40m
	_	Ocean Exploration	2. Discuss possible applications of recent discoveries within the ocean	43m
			3. Examine how recent discoveries in abyssal zones have impacted scientific theories]
			1. Identify characteristics of salt marsh and mangrove habitats	
	Topic 4: Marine Ecosystems	Salt Marches and Mangrouss	2. Explain how utilization of mangrove and salt marshes has changed over time	12m
			3. Propose alternative ways to utilize resources in mangroves and salt marshes	4211
			4. Skills used: Forming a Valid Hypothesis	
		Coral Reefs	1. Describe the characteristics of a coral reef	
			2. Explain the relationship between aquatic organisms and the coral reef	
			3. Examine causes of coral reef loss	50m
			4. Analyze the effectiveness of current efforts to preserve coral reefs	
			5. Skills used: Forming a Valid Hypothesis	
			1. Identify the impacts of floating refuse on marine ecosystems	
		Issues Affecting Marine Ecosystems	2. Describe how fisheries and ocean bottom trawling impact marine ecosystems	43m
			3. Evaluate methods humans are using to reduce their impact on marine ecosystems	
		Topic Test	Topic Test	40m
*AP Test Prep	*AP Review	Units 3 & 4	1. Practice test taking skills that may be utilized on *AP Environmental Science exam	1h 10m
			1. Identify biotic and abiotic factors that limit population growth	-
		Population Size	2. Evaluate the effect of various factors on population size	1h 29m
			Analyze population patterns within ecosystems Skills Used: Interpreting Data, Understanding Cause and Effect, Making Logical Connections	
		Population Genetics	1. Examine ways in which populations can be altered by genetic drift and the founder effect	
			2. Explain how a bottleneck event can affect the genetics of a population	2h 17m
			3. Skills Used: Interpreting Data, Understanding Cause and Effect	
	Topic 1: Population		1. Compare and contrast various methods of determining population size	
	Dynamics	Determining Population Size	2. Distinguish between major population growth models	1h 4m
		Determining Population Size	3. Calculate population density	1114111
			4. Skills Used: Interpreting Data, Compare and Contrast, Calculating Data	1
			 Compare and contrast various types of population distribution Differentiate between stabilizing, disruptive and directional selection utilizing a 	
		Measuring Populations	цгарп 3. Illustrate the structure of a given population demographic	49m
			4. Skills Used: Compare and Contrast, Create a Structure Diagram. Interpreting Data	-
		Topic Test	Topic Test	40m
		· ·	1. Compare and contrast various urban and suburban migration patterns seen on the	
			2. Describe the effects of upward growth on local environments	-
I	l	Urban Growth		46m

		orbait crowdi	3. Describe the effects of urban sprawl on local environments	
			4. Skills used: Determine the cause and predict the effect	
Unit 5: Human Population & Urban Environments			1. Identify the influences of environment on behavior	
			2. Explain the impact of limiting factors on human society	
		Limiting Factors and Humans	3. Describe factors that can impact the stability of a society	- 47m
			4. Skills used: Making logical connections, supporting claims, understanding cause	
	Topic 2: Human		1. Compare and contrast the impact of differing human lifestyles on sustainability	
	Populations and Urban Environments	Sustainability	2. Describe future sustainability utilizing graphs and current data	1h 8m
			3. Skills used: Making predictions, identifying trends, understanding cause and effect,	1
			Compare and contrast, graphing projections 1. Describe the relationship between energy consumption and quality of living	
		Humans and the Energy Cycle	2. Explain the impact of energy flow and cycles of matter on society	44m
			3. Skills used: Creating a flow chart, making predictions, making logical connections,	
			Identifying trends and patterns 1. Determine the impact of biotechnology on society and the environment	
		Societal Consequences	2. Explain the benefits and disadvantages of scientific and medical advancements to	43m
			3. Skills used: Supporting claims, researching with technology, making valid	
		Topic Test	Criticisms, understanding cause and effect Topic Test	40m
			1 Evaluate the impact of different agricultural techniques on the environment	
		Human Events and the Environment	2. Describe the effects of large-scale environmental catastrophes	44m
			3. Skills used: Making predictions, identifying trends, understanding cause and effect,	
			graphing projections, compare and contrast, making valid criticisms, supporting	
		Natural Events and the Environment	2 Describe the impact of natural disasters on local populations	55m
		Natara Events and the Environment	3. Skills used: Understanding cause and effect, graphing projections, making logical	mcc
	Topic 3: The		connections, supporting claims 1. Describe the impact of energy producing technologies on the environment and the	
	Environmental Impact of	Effects of Technology	acquisition of natural resources 2. Explain how energy producing technologies impact land fertility and aquatic	45m
	numuns und reenhology		viability 3. Skills used: Making predictions, identifying trends, researching with technology,	-511
		으리지	understanding cause and effect, interpreting observations, evaluating explanations, 1. Describe various ways communities are attempting to restore and protect	
			ecosystems 2. Give examples of emerging efforts designed to successfully address environmental	1h 2m
		Success Stories	issues	111 2111
		Global Connection: Changing Migratory	Shills used: Understanding dause and effect Fynlain how migratory patterns change in response to alterations in an ecosystem	/5m
		Patterns	Tonic Test	40m
		Cumulative Exa	im	1h 15m
			1 Describe the composition of soil	ministri
			2 Characterize the major horizons in soil	
		What is Soil?	3 Compare processes of soil formation in various environments	2h 20m
			4 Skills used: Selecting Valid Resources	
			1. Identify the properties of soil	
			2 Explain the relationship between microorganisms, humus, and soil health	- 1h 2m
		Soil Formation	3 Assess the role of microorganisms in soil	
	Topic 1: Soil		4 Skills used: Selecting Valid Resources	
			1 Explain the relationships between organisms and soil of different ecosystems	
		Soil Around the World	2 Compare and contrast the soil composition of different ecosystems	44m
		Soil Around the World	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil	44m
		Soil Around the World	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management	44m
		Soil Around the World	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management	44m
Unit 6: Soil, Food &		Soil Around the World	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste	44m 50m
Unit 6: Soil, Food & Agriculture		Soil Around the World Disposal and Management of Waste	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste	44m 50m
Unit 6: Soil, Food & Agriculture		Soil Around the World Disposal and Management of Waste	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test	44m 50m
Unit 6: Soil, Food & Agriculture		Soil Around the World Disposal and Management of Waste	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test 1. Compare and contrast various agricultural practices around the world	44m 50m 40m
Unit 6: Soil, Food & Agriculture		Soil Around the World Disposal and Management of Waste	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test 1. Compare and contrast various agricultural practices around the world 2. Evaluate various methods used in agriculture to minimize soil depletion and	44m 50m 40m
Unit 6: Soil, Food & Agriculture		Soil Around the World Disposal and Management of Waste Soil and Agriculture	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test 1. Compare and contrast various agricultural practices around the world 2. Evaluate various methods used in agriculture to minimize soil depletion and erosion 3. Skills used: Selecting Valid Resources	44m 50m 40m 48m
Unit 6: Soil, Food & Agriculture		Soil Around the World Disposal and Management of Waste Soil and Agriculture	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test 1. Compare and contrast various agricultural practices around the world 2. Evaluate various methods used in agriculture to minimize soil depletion and erosion 3. Skills used: Selecting Valid Resources 1. Illustrate the factors which affect food distribution and food production	44m 50m 40m 48m
Unit 6: Soil, Food & Agriculture		Soil Around the World Disposal and Management of Waste Soil and Agriculture Food Production Practices	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test 1. Compare and contrast various agricultural practices around the world 2. Evaluate various methods used in agriculture to minimize soil depletion and erosion 3. Skills used: Selecting Valid Resources 1. Illustrate the factors which affect food distribution and food production 2. Identify the effects of genetically engineered crops	44m 50m 40m 48m
Unit 6: Soil, Food & Agriculture	Topic 2: Food and	Soil Around the World Disposal and Management of Waste Soil and Agriculture Food Production Practices	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test 1. Compare and contrast various agricultural practices around the world 2. Evaluate various methods used in agriculture to minimize soil depletion and erosion 3. Skills used: Selecting Valid Resources 1. Illustrate the factors which affect food distribution and food production 2. Identify the effects of genetically engineered crops 3. Analyze the process and effectivness of alternative anricultural methods	44m 50m 40m 48m
Unit 6: Soil, Food & Agriculture	Topic 2: Food and Agriculture	Soil Around the World Disposal and Management of Waste Soil and Agriculture Food Production Practices	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test 1. Compare and contrast various agricultural practices around the world 2. Evaluate various methods used in agriculture to minimize soil depletion and erosion 3. Skills used: Selecting Valid Resources 1. Illustrate the factors which affect food distribution and food production 2. Identify the effects of genetically engineered crops 3. Analyze the process and effectivness of alternative agricultural methods 1. Establish the causes of desertification	44m 50m 40m 48m 1h 10m
Unit 6: Soil, Food & Agriculture	Topic 2: Food and Agriculture	Soil Around the World Disposal and Management of Waste Soil and Agriculture Food Production Practices Earming Practices	2. Compare and contrast the soil composition of different ecosystems 3. Describe ways in which humans impact soil 1. Classify types of solid waste management 2. Survey the laws governing waste management 3. Compare alternate methods of managing waste 4. Discern the implications of managing hazardous waste Topic Test 1. Compare and contrast various agricultural practices around the world 2. Evaluate various methods used in agriculture to minimize soil depletion and erosion 3. Skills used: Selecting Valid Resources 1. Illustrate the factors which affect food distribution and food production 2. Identify the effects of genetically engineered crops 3. Analyze the process and effectivness of alternative agricultural methods 1. Establish the causes of desertification 2. Show how agriculture can lead to soil erosion	44m 50m 40m 48m 1h 10m

			3. Correlate over-use of water, pesticides, and fertilizers to the effect on soil fertility]
		Global Connection: Microflora and Microfauna	1. Evaluate how agricultural practices affect microflora and microfauna	45m
			Topic Test	40m
*AP Test Prep	*AP Review	Units 5 & 6	1. Practice test taking skills that may be utilized on *AP Environmental Science exam	1h 10m
			1. Classify major forestry issues	
		Wildlife Management Through Land Sustainability	 Examine practices used to manage of parks, nature preserves, and wilderness areas 	50m
			3. Assess current management issues and conflicts in wildlife management	
		Global Connection: Deforestation in Haiti	1. Assess how deforestation in Haiti impacts the environment	45m
	Topic 1: Wildlife Management		1. Predict possible outcomes of failing to conserve species diversity	
	5	Species Conservation	2. Relate habitat and ecoysystem management to species conservation	1h 10m
			3. Plan steps to achieve sustainable populations	
		Global Connection: Newfoundland Cod Fishery Collapse	1. Assess the societal and environmental consequences of government policy	45m
			Topic Test	40m
			1. Explain the impact of trees on air quality	
			2. Identify methods in which trees are utilized by humans	-
		The Importance of Trees	3. Describe the relationship between trees and other organisms	53m
			4. Analyze the consequences of human use of trees	
			5. Skills used: Constructing valid criticism	-
			1. Identify the locations of the world's rainforests	
			2. Explain how rainforest resources are utilized throughout the globe	-
		Rainforest Loss	3. Evaluate the impact of rainforest loss over the last 100 years	46m
Unit 7: Wildlife and Land			4. Compare and contrast the effectiveness of current rainforest conservation efforts	-
Management			5. Skills used: Constructing valid criticism	
			1. Describe the main roles of a forester	
	Topic 2: Land Use		2. Compare and contrast current methods of forest management	-
		Modern Forestry 우리 집	3. Analyze the role of forests as carbon sinks	49m
			4. Skills used: Constructing valid criticism	-
			1. Evaluate ways that wildfire benefits ecosystems	
			2. Analyze methods of fire utilization within various environments	-
		Fire and Nature	3. Predict how fire can be used to further benefit the environment	- 44m
			4. Skills used: Constructing valid criticism	
		Human Use of Land	1. Assess the effects of human land usage on ecosystems	- 48m
			2. Compare and contrast ways humans are working to reduce the impact of land use	
			3. Describe possible future consequences of land use to the environment	
			4. Skills used: Determine the cause and predict the effect	
			1. Describe differences in the use of public land and private land	
		Land Management and Planning	2. Describe large-scale land management methods implemented by governments	-
			3. Determine possible impacts of land management methods on the environment	43m
			4. Skills used: Determine the cause and predict the effect	-
			Topic Test	40m
			1 Categorize environmental pollutants by source and effect	
		Environmental Health	2 Assess hazards associated with each category of pollutant	
			3 Provide examples of the general effects of pollutants on populations	-
	Topic 1: Human Health		1 Describe the relationship between heredity and personal health	-
		Other Influences on Personal Health	2. Compare and contrast the impact of genetic and environmental factors on	47m
			individual and public health 3. Skills used: Compare and contrast, understanding cause and effect, making	-
			predictions Topic Test	40m
Unit 8: Human, Risk and Toxicology			1 Describe the relationship between the environment and personal health	TOIL
		The Environment and the Individual	2 Identify synthetic environmental health hazards	1h 1m
			3. Skills used: Making logical connections, interpreting observations, understanding	-
	Topic 2: Environmental		cause and effect, compare and contrast	
	Hazards	Natural Disasters and Hazards	2. Relate natural disacters and human catastrophos	50m
		Natural Disasters and Hazards	2. Construct strategies to predict and mitigate natural disasters	40m
			Topic Test	
*AP Test Prop	*AD Povious	Lipite 7 % 9	1. Practice test taking skills that may be utilized on AAD Environmental Science succes	16 10m
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		Energy Resources	1. Describe the basic principles of energy and energy efficiency	
			2. Examine energy sources and related energy consumption	50m
			3. Investigate energy choices by interpreting energy policies	1
			1. Explain how natural resources are produced	
			2. Explain how fossil fuels are formed	
		What are Natural Resources?	3. Explain how resource availability is limited by rates of use and renewal	– 44m
			4. Skills used: Making predictions, compare and contrast, researching with	
	Topic 1: Energy	Nuclear Power	1. Compare and contrast the processes of nuclear fission and nuclear fusion	
	Resources		2. Describe uses of nuclear energy	
			3. Examine possible consequences of using nuclear energy	– 1h 7m
			4. Skills used: Researching with technology, modeling systems, compare and	
		Global Connection: Nuclear Fuel	1. Evaluate the environmental impact of using nuclear fuel	45m
			1. Illustrate how natural gas, oil, and coal form	
		Fossil Fuels	2. Evaluate the environmental impacts on fossil fuel production	2h 20m
Unit 9: Energy Resources			3. Formulate evidence to support the need to move away from fossil fuels to	-
and Energy Use			Topic Test	40m
			1. Determine the advantages and disadvantages of each type of alternative energy	
		Renewable and Alternative Energy	2. Compare passive, active, and photovoltaic solar energy systems	50m
		5	3 Predict the possibility of replacing fossil fuel with biofuels in the future	-
			1 Assess the availability and allocation of resources	
			2. Discuss problems associated with the use of pop-local recourses	-
		Resource Conservation	2. Discuss problems associated with the use of non-roband solutions	59m
	Topic 2: Renewab <mark>le</mark>	Resource conservation	Compare and contrast uses of renewable and non-renewable resources	1116C
	Energy Sources		 Fropose and natives to using non-renewable resources Skills used: Compare and contrast, proposing alternative solutions, researching 	-
			with technology 1. Compare and contrast the costs and benefits of using renewable and	
		The Social Costs of Resource Use	nonrenewable resources	- 1h 3m
			2. Evaluate the consequences of world dependence on rules	
			4. Skills used: Making logical connections, evaluating explanations, compare and	-
			contrast	
			Lonic Lest	40m
			I popic lest	40m
		The Water Wellse	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the clobe	40m
		The Water We Use	I opic 1est I. Identify sources of potable and non-potable water Z. Describe the availability of water across the globe Assess the impact of water consumption and diminishing supplies on human	40m 1h 24m
		The Water We Use	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table	40m 1h 24m
		The Water We Use	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater	40m 1h 24m
	Topic 1: Water Resources	The Water We Use Groundwater		40m 1h 24m - 1h 4m
	Topic 1: Water Resources	The Water We Use Groundwater	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables	40m 1h 24m 1h 4m
	Topic 1: Water Resources	The Water We Use Groundwater	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables	40m 1h 24m 1h 4m
	Topic 1: Water Resources	The Water We Use Groundwater	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables 1. Describe naturally occurring changes to waterways	40m 1h 24m - 1h 4m
	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables 1. Describe naturally occurring changes to waterways 2. Evaluate ways humans impact waterways	40m 1h 24m 1h 4m 49m
	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables 1. Describe naturally occurring changes to waterways 2. Evaluate ways humans impact waterways 3. Propose alternative practices to reduce human impact on waterways	40m 1h 24m 1h 4m 49m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables 1. Describe naturally occurring changes to waterways 2. Evaluate ways humans impact waterways 3. Propose alternative practices to reduce human impact on waterways Topic Test 1. Identify laws and regulations in the United States that address water use and	40m 1h 24m 1h 4m 49m 40m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways		40m 1h 24m 1h 24m 1h 4m 49m 40m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy		40m 1h 24m 1h 4m 49m 40m 2h 19m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy		40m 1h 24m 1h 4m 49m 40m 2h 19m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy		40m 1h 24m 1h 24m 1h 4m 49m 40m 2h 19m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems		40m 1h 24m 1h 24m 40m 40m 2h 19m 46m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems		40m 1h 24m 1h 24m 49m 40m 2h 19m 46m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems		40m 1h 24m 1h 24m 1h 4m 49m 40m 2h 19m 46m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems Water Pollution		40m 1h 24m 1h 24m 40m 40m 2h 19m 46m 1h 9m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems Water Pollution Global Connection: Water Management and		40m 1h 24m 1h 24m 49m 40m 2h 19m 46m 1h 9m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems Water Pollution Global Connection: Water Management and Katrina	I lidentify sources of potable and non-potable water I. Identify sources of potable and non-potable water I. Describe the availability of water across the globe Assess the impact of water consumption and diminishing supplies on human activities I. Describe the location and importance of the water table Assess the consequences of overuse and contamination of groundwater Assess the consequences of overuse and contamination of groundwater Assess the consequences of overuse and contamination of groundwater Assess the consequences of overuse and contamination of groundwater Assess the consequences of overuse and contamination of groundwater Assess the consequences of overuse and contamination of groundwater Assess the consequences of overuse and contamination of groundwater Assess the consequences of overuse and Dependent Variables Describe naturally occurring changes to waterways Topic Test I. Identify laws and regulations in the United States that address water use and management Propose possible consequences of failing to conserve water S. Compare and contrast the processes of water reclamation, greywater use, and desalination Describe how invasive species impact an aquatic ecosystem Lidentify ways that invasive species are introduced into an aquatic ecosystem S. Examine various methods of addressing environmental problems that were traditionally solved by utilizing nonnative species I. Identify sources of water pollution Describe the effects of water pollution Analyze the effect of canals and levees on wetlands	40m 1h 24m 1h 24m 49m 40m 2h 19m 46m 1h 9m 45m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems Water Pollution Global Connection: Water Management and Katrina	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables 1. Describe naturally occurring changes to waterways 2. Evaluate ways humans impact waterways 3. Propose alternative practices to reduce human impact on waterways Topic Test 1. Identify laws and regulations in the United States that address water use and management 2. Propose possible consequences of failing to conserve water 3. Compare and contrast the processes of water reclamation, greywater use, and desalination 1. Describe how invasive species impact an aquatic ecosystem 2. Identify ways that invasive species are introduced into an aquatic ecosystem 3. Explain ways that humans can reduce water pollution 1. Jdentify sources of water pollution 2. Describe the effects of water pollution 3. Explain ways that humans can reduce water pollution 1. Analyze the effect of canals and levees on wetlands	40m 1h 24m 1h 24m 49m 40m 2h 19m 46m 1h 9m 45m 40m
Unit 10: Water Resources and Water Pollution	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems Water Pollution Global Connection: Water Management and Katrina Units 9 & 10	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables 1. Describe naturally occurring changes to waterways 2. Evaluate ways humans impact waterways 3. Propose alternative practices to reduce human impact on waterways Topic Test 1. Identify laws and regulations in the United States that address water use and management 2. Propose possible consequences of failing to conserve water 3. Compare and contrast the processes of water reclamation, greywater use, and desalination 1. Describe how invasive species impact an aquatic ecosystem 2. Identify ways that invasive species are introduced into an aquatic ecosystem 3. Examine various methods of addressing environmental problems that were traditionally solved by utilizing nonnative species 1. Identify sources of water pollution 2. Describe the effects of water pollution 3. Explain ways that humans can reduce water pollution 3. Explain ways that humans can reduce water pollution	40m 1h 24m 1h 24m 49m 40m 2h 19m 46m 1h 9m 45m 40m 1h 10m
Unit 10: Water Resources and Water Pollution *AP Test Prep	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems Water Pollution Global Connection: Water Management and Katrina Units 9 & 10	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables 1. Describe naturally occurring changes to waterways 2. Evaluate ways humans impact waterways 3. Propose alternative practices to reduce human impact on waterways Topic Test 1. Identify laws and regulations in the United States that address water use and management 2. Propose possible consequences of failing to conserve water 3. Compare and contrast the processes of water reclamation, greywater use, and desalination 1. Describe how invasive species impact an aquatic ecosystem 2. Identify ways that invasive species are introduced into an aquatic ecosystem 3. Examine various methods of addressing environmental problems that were traditionally solved by utilizing nonnative species 1. Identify sources of water pollution 2. Describe the effects of water pollution 3. Explain ways that humans can reduce water pollution 3. Explain ways that humans can reduce water pollution	40m 1h 24m 1h 24m 49m 40m 2h 19m 46m 1h 9m 45m 40m 1h 10m
Unit 10: Water Resources and Water Pollution *AP Test Prep	Topic 1: Water Resources	The Water We Use Groundwater Changing Waterways Water Policy Nonnative Species in Aquatic Ecosystems Water Pollution Global Connection: Water Management and Katrina Units 9 & 10 Skills Lesson: Evaluating Explanations	1. Identify sources of potable and non-potable water 2. Describe the availability of water across the globe 3. Assess the impact of water consumption and diminishing supplies on human activities 1. Describe the location and importance of the water table 2. Assess the consequences of overuse and contamination of groundwater 3. Explain how human use of groundwater has changed over time 4. Skills used: Determining Independent and Dependent Variables 1. Describe naturally occurring changes to waterways 2. Evaluate ways humans impact waterways 3. Propose alternative practices to reduce human impact on waterways Topic Test 1. Identify laws and regulations in the United States that address water use and management 2. Propose possible consequences of failing to conserve water 3. Compare and contrast the processes of water reclamation, greywater use, and desalination 1. Describe how invasive species impact an aquatic ecosystem 2. Identify ways that invasive species are introduced into an aquatic ecosystem 3. Examine various methods of addressing environmental problems that were traditionally solved by utilizing nonnative species 1. Identify sources of water pollution 2. Describe the effects of water pollution 3. Explain ways that humans can reduce water pollution 3. Explain ways that humans can reduce water pollution	40m 1h 24m 1h 24m 49m 40m 2h 19m 2h 19m 46m 1h 9m 45m 40m 1h 9m 42m

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			4. Evaluate the given explanation based on researched data	
		The Earth's Atmosphere	1. Relate atmospheric structure to the processes that determine climate	
			2. Model the role of greenhouse gases in the greenhouse effect on climate	50m
			3. Predict environmental changes as a result of global warming and propose solutions	
			1. Identify various effects of climate changes on an ecosystem	
	Topic 1: The Climate of	Climate and Change in Ecosystems	2. Describe environmental factors that can cause changes in ecosystems	1h 26m
			 Compare and contrast the benefits and disadvantages of natural change to ecosystems 	i I
	the Earth		1. Predict future changes in the global climate	
		Clobal Change	2. Assess current theories regarding global climate change	45
		Giobal Change	3. Analyze environment changes and their connection to global warming	4311
			4. Skills used: Making predictions based on data	
			1. Compare current and past global climate trends	
	_		2. Explain how long-term global climate shifts impact Earth's ecosystems	1h 1m
		A History of Global Climate Change	3. Describe the effects of greenhouse gases on the atmosphere	
			4. Analyze various theories related to global warming	
Unit 11: Atmospheric			5. Skills used: Compare and contrast support and opposition	
Change, and Air Pollution		우리집		40m
	Topic 2: Air Pollution	Air Quality	1. Identify various causes of air pollution	
			2. Explain the impact of air pollution on the environment	2h 13m
			3. Assess the methods that can be utilized to improve air quality	
			4. Propose alternative methods of improving air quality	
			5. Skills used: Compare and Contrast Support and Opposition	
		Atmospheric Pollution	1. Overview the composition and function of each layer of the atmosphere	1h 7m
			2. Identify various common atmospheric pollutants	
			3. Differentiate between primary and secondary pollutants	
			4. Examine the effects of pollution on health	
			5. Skills used: Evaluate the validity of an explanation	
		Ozone	1. Explain how the ozone layer is formed	
			2. Analyze the importance of the ozone layer in sustaining life	44m
			3. Compare and contrast various factors that cause ozone depletion	
			4. Relate fluctuations in ozone to human health and the environment	
		Indoor Air Pollution	1. Relate health problems to their source of indoor air pollutant	
			2. Establish the links between indoor pollutants such as carbon dioxide, environmental tobacco smoke, and radon to their impact on human health	50m
			3. Provide strategies to reduce indoor air pollution	
			Topic Test	40m
*AP Test Prep	*AP Review	Unit 11	1. Practice test taking skills that may be utilized on *AP Environmental Science exam	1h 10m
Cumulative Exam			1h 15m	