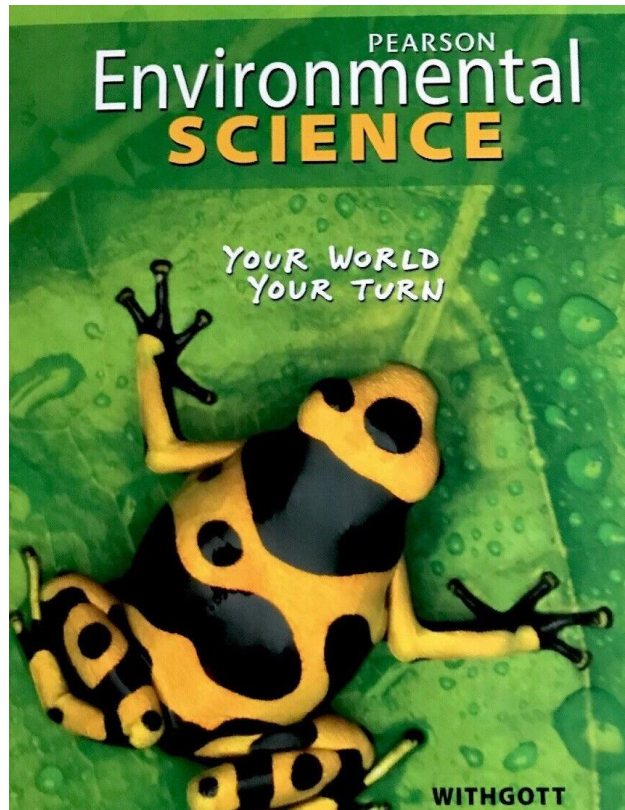


A Correlation of

Environmental Science Your World, Your Turn



To the

Next Generation Science Standards and California Environmental Principles and Concepts

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Unit 1: Introduction	
Chapter 1: An Introduction to Environmental Science	
<p>1.1: Our Island, Earth</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; ESS3.A: Natural Resources; ESS3.B: Natural Hazards; ESS3.C: Human Impacts on Earth Systems; ESS3.D: Global Climate Change</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle III, Concept C; Principle IV, Concept A; Principle V, Concept A; Principle V, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
1.2: The Nature of Science	<p>DCI: ETS1.B: Developing Possible Solutions; ETS1.C: Optimizing the Design Solution</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Systems and System Models; Structure and Function</p> <p>EP&C: Principle IV, Concept B; Principle V, Concept A; Principle V, Concept B</p>
1.3: The Community of Science	<p>DCI: ESS3.A: Natural Resources</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Constructing Explanations and Designing Solutions; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Systems and System Models; Stability and Change</p> <p>EP&C: Principle V, Concept A; Principle V, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 2: Economics and Environmental Policy	
2.1: Economics	<p>DCI: ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Constructing Explanations and Designing Solutions</p> <p>CCC: Stability and Change</p> <p>EP&C: Principle I, Concept A; Principle I, Concept B; Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle III, Concept B; Principle III, Concept C; Principle IV, Concept A; Principle V, Concept A; Principle V, Concept B</p>
2.2: United States Environmental Policy	<p>DCI: ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Constructing Explanations and Designing Solutions</p> <p>CCC: Cause and Effect</p> <p>EP&C: Principle II, Concept D; Principle V, Concept A; Principle V, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
2.3: International Environmental Policy and Approaches	<p>DCI: ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect; Stability and Change</p> <p>EP&C: Principle I, Concept A; Principle I, Concept B; Principle II, Concept D; Principle V, Concept A; Principle V, Concept B</p>
Chapter 3: Earth's Environmental Systems	
3.1: Matter and the Environment	<p>DCI: PS1.A: Structures and Properties of Matter; PS1.B: Chemical Reactions; PS1.C: Nuclear Processes; LS1.C: Organization for Matter and Energy Flow in Organisms; ESS2.C: The Roles of Water in Earth's Surface Processes</p> <p>SEP: Asking Questions and Defining Problems</p> <p>CCC: Patterns; Cause and Effect; Energy and Matter; Structure and Function</p> <p>EP&C: Principle III, Concept A; Principle III, Concept B</p>

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3.2: Systems in Environmental Science	<p>DCI: ESS2.A: Earth Materials and Systems; ESS2.B: Plate Tectonics and Large-Scale System Interactions; ESS2.C: The Roles of Water in Earth's Surface Processes; ESS2.D: Weather and Climate; ESS2.E: Biogeology</p> <p>SEP: Analyzing and Interpreting Data</p> <p>CCC: Patterns Systems and System Models</p> <p>EP&C: Principle III, Concept A</p>
3.3: Earth's Spheres	<p>DCI: ESS2.A: Earth Materials and Systems; ESS2.B: Plate Tectonics and Large-Scale System Interactions; ESS2.C: The Roles of Water in Earth's Surface Processes; ESS2.D: Weather and Climate; ESS2.E: Biogeology</p> <p>SEP: Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Systems and System Models; Energy and Matter; Stability and Change</p> <p>EP&C: Principle II, Concept D</p>

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<p>3.4: Biogeochemical Cycles</p>	<p>DCI: PS1.A: Structures and Properties of Matter; PS3.B: Conservation of Energy and Energy Transfer; PS3.D: Energy in Chemical Processes and Everyday Life; LS1.C: Organization for Matter and Energy Flow in Organisms; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS2.D: Social Interactions and Group Behavior; ESS2.E: Biogeology</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking</p> <p>CCC: Patterns; Cause and Effect; Systems and System Models; Energy and Matter; Stability and Change</p> <p>EP&C: Principle III, Concept A; Principle III, Concept B; Principle III, Concept C</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Unit 2: Ecology	
Chapter 4: Population Ecology	
4.1 Studying Ecology	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS3.B: Variation of Traits</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect; Scale, Proportion, and Quantity; Energy and Matter; Stability and Change</p> <p>EP&C: Principle I, Concept B; Principle I, Concept C; Principle V, Concept A</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
4.2 Describing Populations	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS3.B: Variation of Traits; LS4.B: Natural Selection; LS4.C: Adaptation</p> <p>SEP: Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Systems and System Models; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C</p>
4.3 Population Growth	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS4.B: Natural Selection; LS4.C: Adaptation; LS4.D: Biodiversity and Humans</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Scale, Proportion, and Quantity; Stability and Change</p> <p>EP&C: Principle II, Concept A</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 5: Evolution and Community Ecology	
5.1 Evolution	<p>DCI: LS3.A: Inheritance of Traits; LS3.B: Variation of Traits; LS4.A: Evidence of Common Ancestry and Diversity; LS4.B: Natural Selection; LS4.C: Adaptation; LS4.D: Biodiversity and Humans</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Structure and Function; Stability and Change</p> <p>EP&C: Principle III, Concept A; Principle V, Concept A; Principle V, Concept B</p>
5.2 Species Interactions	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS4.C: Adaptation</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking</p> <p>CCC: Patterns; Cause and Effect; Stability and Change</p> <p>EP&C: Principle III, Concept A</p>

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<p>5.3 Ecological Communities</p>	<p>DCI: PS3.B: Conservation of Energy and Energy Transfer; PS3.D: Energy in Chemical Processes and Everyday Life; LS1.C: Organization for Matter and Energy Flow in Organisms; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems</p> <p>SEP: Analyzing and Interpreting Data Using Mathematics and Computational Thinking; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Systems and System Models; Energy and Matter; Structure and Function; Stability and Change</p> <p>EP&C: Principle III, Concept A; Principle V, Concept A</p>

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<p>5.4 Community Stabilities</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS4.C: Adaptation; LS4.D: Biodiversity and Humans</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Structure and Function; Stability and Change</p> <p>EP&C: Principle III, Concept A; Principle V, Concept A</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 6: Biomes and Aquatic Ecosystems	
<p>6.1 Defining Biomes</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS4.B: Natural Selection; LS4.C: Adaptation; ESS2.D: Weather and Climate</p> <p>SEP: Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Scale, Proportion, and Quantity; Stability and Change</p> <p>EP&C: Principle V, Concept A; Principle V, Concept B</p>

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<p>6.2 Biomes</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Pattern; Cause and Effect; Systems and System Models; Structure and Function; Stability and Change</p> <p>EP&C: Principle V, Concept A; Principle V, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
6.3 Aquatic Systems	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS4.B: Natural Selection; LS4.C: Adaptation</p> <p>SEP: Asking Questions and Defining Problems; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Structure and Function; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle II, Concept C</p>
Chapter 7: Biodiversity and Conservation	
7.1 Our Planet of Life	<p>DCI: LS4.B: Natural Selection; LS 4.C: Adaptation LS4.D: Biodiversity and Humans</p> <p>SEP: Analyzing and Interpreting Data; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Structure and Function; Stability and Change</p>

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<p>Continued 7.1 Our Planet of Life</p>	<p>EP&C: Principle II, Concept A; Principle II, Concept C</p>
<p>7.2 Extinction and Biodiversity Loss</p>	<p>DCI: ESS3.C: Human Impacts on Earth Systems; LS4.C: Adaptation; LS4.D: Biodiversity and Humans; ESS2.D: Weather and Climate; ESS2.E: Biogeology; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect; Scale, Proportion, and Quantity</p> <p>EP&C: Principle II, Concept A; Principle II, Concept C; Principle IV, Concept C</p>

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<p>7.3 Protecting Biodiversity</p>	<p>DCI: ESS3.C: Human Impacts on Earth Systems; LS4.C: Adaptation; LS4.D: Biodiversity and Humans; ESS2.D: Weather and Climate; ESS2.E: Biogeology; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Scale, Proportion, and Quantity; Stability and Change</p> <p>EP&C: Principle II, Concept C; Principle IV, Concept C; Principle V, Concept A</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Unit 3: Humans and the Environment	
Chapter 8: Human Population	
<p>8.1 Trends in Human Population Growth</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS4.D: Biodiversity and Humans; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle IV, Concept A; Principle IV, Concept B; Principle V, Concept A; Principle V, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
8.2 Predicting Population Growth	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS4.B: Natural Selection; LS4.C: Adaptation</p> <p>SEP: Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle II, Concept C; Principle II, Concept D</p>
8.3 People and Their Environments	<p>DCI: LS4.D: Biodiversity and Humans</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Stability and Change</p> <p>EP&C: Principle IV, Concept A; Principle IV, Concept B; Principle IV, Concept C</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 9: Environmental Health	
9.1 An Overview of Environmental Health	<p>DCI: LS4.B: Natural Selection; ESS3.B: Natural Hazards; LS4.C: Adaptation</p> <p>SEP: Analyzing and Interpreting Data; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect</p> <p>EP&C: Principle III, Concept C; Principle IV, Concept A; Principle IV, Concept C; Principle V, Concept A; Principle V, Concept B</p>
9.2 Biological and Social Hazards	<p>DCI: LS4.B: Natural Selection; ESS3.B: Natural Hazards; LS4.C: Adaptation</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect</p> <p>EP&C: Principle III, Concept C; Principle IV, Concept B; Principle IV, Concept C</p>

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9.3 Toxic Substances in the Environment	<p>DCI: LS4.B: Natural Selection; ESS3.B: Natural Hazards; LS4.C: Adaptation</p> <p>SEP: Developing and Using Models; Analyzing and Interpreting Data; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect; Systems and System Models</p> <p>EP&C: Principle III, Concept C; Principle IV, Concept B; Principle IV, Concept C</p>
9.4 Natural Disasters	<p>DCI: ESS2.B: Plate Tectonics and Large-Scale System Interactions; ESS2.D: Weather and Climate; ESS3.B: Natural Hazards</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Energy and Matter; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle IV, Concept A; Principle IV, Concept B; Principle IV, Concept C</p>

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Chapter 10: Urbanization	
10.1 Land Use and Urbanizations	<p>DCI: LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS4.D: Biodiversity and Humans; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle II, Concept D; Principle IV, Concept A; Principle IV, Concept B; Principle IV, Concept C; Principle V, Concept A</p>
10.2 Sprawl	<p>DCI: ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect</p>

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Continued 10.2 Sprawl	<p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle II, Concept D; Principle IV, Concept C; Principle V, Concept A; Principle V, Concept B</p>
10.3 Sustainable Cities	<p>DCI: LS4.D: Biodiversity and Humans; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ETS1.A: Defining and Delimiting an Engineering Problem; ETS1.B: Developing Possible Solutions; ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle II, Concept D; Principle IV, Concept C; Principle V, Concept A</p>

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Unit 4: Earth’s Resources	
Chapter 11: Forestry and Resources Management	
11.1 Resources Management	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS4.D: Biodiversity and Humans</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Structure and Function; Stability and Change</p> <p>EP&C: Principle II, Concept B; Principle II, Concept C; Principle V, Concept A; Principle V, Concept B</p>

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<p>11.2 Forests and Their Resources</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS4.D: Biodiversity and Humans</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Structure and Function; Stability and Change</p> <p>EP&C: Principle II, Concept B; Principle II, Concept C; Principle V, Concept A; Principle V, Concept B</p>

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<p>11.3 Forest Management</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS4.D: Biodiversity and Humans</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Stability and Change</p> <p>EP&C: Principle IV, Concept A; Principle IV, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 12: Soil and Agriculture	
12.1 Soil	<p>DCI: ESS2.D: Weather and Climate</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Energy and Matter; Structure and Function; Stability and Change</p> <p>EP&C: Principle I, Concept C; Principle III, Concept A; Principle III, Concept B</p>

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<p>12.2 Soil Degradation and Conservation</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; ESS2.E: Biogeology; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Systems and System Models; Energy and Matter; Structure and Function; Stability and Change</p> <p>EP&C: Principle II, Concept D; Principle IV, Concept A; Principle IV, Concept B; Principle IV, Concept C; Principle V, Concept A; Principle V, Concept B</p>

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12.3 Agriculture	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; LS4.D: Biodiversity and Humans; ESS2.D: Weather and Climate; ESS2.E: Biogeology; ESS3.C: Human Impacts on Earth Systems; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Principle II, Concept C; Principle II, Concept D; Principle III, Concept B; Principle III, Concept C; Principle IV, Concept A; Principle V, Concept A; Principle V, Concept B</p>

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<p>12.4 Food Production</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS4.D: Biodiversity and Humans; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Structure and Function; Stability and Change</p> <p>EP&C: Principle I, Concept A; Principle I, Concept B; Principle I, Concept C; Principle II, Concept B; Principle II, Concept C; Principle II, Concept D; Principle III, Concept B; Principle III, Concept C; Principle V, Concept A; Principle V, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 13: Mineral Resources and Mining	
13.1 Minerals and Rocks	<p>DCI: ESS1.C: The History of Planet Earth; ESS2.B: Plate Tectonics and Large-Scale System Interactions; ESS2.C: The Roles of Water in Earth's Surface Processes; ESS2.E: Biogeology</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Energy and Matter; Stability and Change</p> <p>EP&C: Principle I, Concept A; Principle I, Concept B; Principle III, Concept A</p>
13.2 Mining	<p>DCI: ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Analyzing and Interpreting Data; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models</p> <p>EP&C: Principle II, Concept B; Principle II, Concept C; Principle II, Concept D; Principle IV, Concept A; Principle IV, Concept B; Principle V, Concept A; Principle V, Concept B</p>

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<p>13.3 Mining Impacts and Regulation</p>	<p>DCI: ESS3.C: Human Impacts on Earth Systems; ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Scale, Proportion, and Quantity; Stability and Change</p> <p>EP&C: Principle II, Concept D; Principle IV, Concept A; Principle IV, Concept B; Principle IV, Concept C; Principle V, Concept A; Principle V, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 14: Water Resources	
<p>14.1: Earth: The Water Planet</p>	<p>DCI: ESS2.C: The Roles of Water in Earth's Surface Processes; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Systems and System Models</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle V, Concept A</p>

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<p>14.2: Uses of Fresh Water</p>	<p>DCI: LS2.C: Ecosystem Dynamics, Functioning, and Resilience; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ETS1.B: Developing Possible Solutions; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Developing and Using Models; Analyzing and Interpreting Data</p> <p>CCC: Patterns; Cause and Effect</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle II, Concept D; Principle III, Concept B; Principle III, Concept C; Principle IV, Concept A; Principle IV, Concept B; Principle IV, Concept C; Principle V, Concept A</p>

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<p>14.3 Water Pollution</p>	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; LS2.C: Ecosystem Dynamics, Functioning, and Resilience; ESS2.C: The Roles of Water in Earth's Surface Processes; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Structure and Function; Stability and Change</p> <p>EP&C: Principle II, Concept B; Principle II, Concept C; Principle II, Concept D; Principle IV, Concept A; Principle IV, Concept B; Principle V, Concept A</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 15: The Atmosphere	
15.1 Earth's Atmosphere	<p>DCI: PS3.D: Energy in Chemical Processes and Everyday Life; ESS2.D: Weather and Climate; ESS3.D: Global Climate Change</p> <p>SEP: Asking Questions and Defining Problems; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Stability and Change</p> <p>EP&C: Principle I, Concept B; Principle I, Concept C; Principle III, Concept A; Principle III, Concept B</p>
15.2 Pollution of the Atmosphere	<p>DCI: LS2.A: Interdependent Relationships in Ecosystems; ESS2.C: The Roles of Water in Earth's Surface Processes; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p>

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<p>Continued 15.2 Pollution of the Atmosphere</p>	<p>CCC: Cause and Effect; Systems and System Models; Energy and Matter</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle III, Concept C; Principle IV, Concept B; Principle V, Concept A</p>
<p>15.3 Controlling Air Pollution</p>	<p>DCI: ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Structure and Function; Stability and Change</p> <p>EP&C: Principle II, Concept D; Principle III, Concept C; Principle IV, Concept B; Principle IV, Concept C; Principle V, Concept A</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Unit 5: Toward a Sustainable Future	
Chapter 16: Global Climate Change	
16.1 Our Dynamic Climate	<p>DCI: PS3.A: Definitions of Energy; PS3.B: Conservation of Energy and Energy Transfer; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; ESS1.A: The Universe and Its Stars; ESS1.B: Earth and the Solar System; ESS2.D: Weather and Climate; ESS3.D: Global Climate Change</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Systems and System Models; Structure and Function; Stability and Change</p> <p>EP&C: Principle III, Concept A</p>

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<p>16.2 Climate Change</p>	<p>DCI: LS2.C: Ecosystem Dynamics, Functioning, and Resilience; ESS1.A: The Universe and Its Stars; ESS1.B: Earth and the Solar System; ESS2.D: Weather and Climate; ESS3.C: Human Impacts on Earth Systems; ESS3.D: Global Climate Change</p> <p>SEP: Asking Questions and Defining Problems; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Structure and Function; Stability and Change</p> <p>EP&C: Principle I, Concept B; Principle I, Concept C; Principle II, Concept A; Principle II, Concept C; Principle II, Concept D; Principle III, Concept C; Principle IV, Concept B; Principle V, Concept B</p>

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<p>16.3 Effects of Climate Change</p>	<p>DCI: LS4.D: Biodiversity and Humans; ESS2.D: Weather and Climate; ESS2.E: Biogeology; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ESS3.D: Global Climate Change; ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Stability and Change</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B, Principle II, Concept C; Principle II, Concept D; Principle III, Concept C; Principle IV, Concept A; Principle IV, Concept B; Principle IV, Concept C; Principle V, Concept A</p>

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16.4 Responding to Climate Change	<p>DCI: LS4.D: Biodiversity and Humans; ESS2.D: Weather and Climate; ESS2.E: Biogeology; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ESS3.D: Global Climate Change; ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Structure and Function; Stability and Change</p> <p>EP&C: Principle II, Concept B; Principle IV, Concept A; Principle IV, Concept B; Principle IV, Concept C; Principle V, Concept A</p>
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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 17: Nonrenewable Energy	
<p>17.1 Energy: An Overview</p>	<p>DCI: PS1.C: Nuclear Processes; PS3.A: Definitions of Energy; PS3.B: Conservation of Energy and Energy Transfer; PS3.D: Energy in Chemical Processes and Everyday Life; LS2.B: Cycles of Matter and Energy Transfer in Ecosystems; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Structure and Function; Stability and Change</p> <p>EP&C: Principle I, Concept A; Principle I, Concept B; Principle I, Concept C; Principle III, Concept B; Principle III, Concept C; Principle V, Concept A</p>

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<p>17.2 Fossil Fuels</p>	<p>DCI: PS3.D: Energy in Chemical Processes and Everyday Life; ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ETS2.A: Interdependence of Science, Engineering, and Technology</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information; Scale, Proportion, and Quantity</p> <p>CCC: Patterns; Cause and Effect; Systems and System Models; Energy and Matter; Structure and Function; Stability and Change</p> <p>EP&C: Principle V, Concept B</p>

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<p>17.3 Consequences of Fossil Fuel Use</p>	<p>DCI: ESS3.A: Natural Resources; ESS3.C: Human Impacts on Earth Systems; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Structure and Function; Stability and Change</p> <p>EP&C: Principle II, Concept B; Principle II, Concept D; Principle IV, Concept B; Principle V, Concept A; Principle V, Concept B</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
17.4 Nuclear Power	<p>DCI: PS1.A: Structures and Properties of Matter; PS1.B: Chemical Reactions; PS1.C: Nuclear Processes; PS2.B: Types of Interactions</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Energy and Matter; Structure and Function</p> <p>EP&C: Principle I, Concept B; Principle III, Concept B; Principle V, Concept A; Principle V, Concept B</p>
Chapter 18: Renewable Energy Alternatives	
18.1 Biomass and Geothermal Energy	<p>DCI: ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Structure and Function</p>

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<p>Continued 18.1 Biomass and Geothermal Energy</p>	<p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle III, Concept B; Principle III, Concept C; Principle V, Concept A</p>
<p>18.2 Hydropower and Ocean Energy</p>	<p>DCI: ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Developing and Using Models; Engaging in Argument from Evidence</p> <p>CCC: Cause and Effect; Systems and System Models; Energy and Matter; Structure and Function</p> <p>EP&C: Principle II, Concept A; Principle II, Concept B; Principle II, Concept C; Principle III, Concept B; Principle III, Concept C; Principle V, Concept A</p>
<p>18.3 Solar and Wind Energy</p>	<p>DCI: ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Asking Questions and Defining Problems; Developing and Using Models; Planning and Carrying Out Investigations; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p>

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<p>Continued 18.3 Solar and Wind Energy</p>	<p>CCC: Patterns; Systems and System Models; Energy and Matter; Structure and Function</p> <p>EP&C: Principle II, Concept A; Concept B; Concept C; Principle III, Concept B; Concept C; Principle V, Concept A</p>
<p>18.4 Energy from Hydrogen</p>	<p>DCI: ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Structure and Function</p> <p>EP&C: Principle II, Concept A; Concept B; Concept C; Principle III, Concept B; Concept C; Principle V, Concept A</p>

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Pearson Environmental Science: Your World, Your Turn	NGSS DCIs, SEPs, and CCCs & CA Environmental Principles and Concepts
Chapter 19: Waste Management	
19.1 Municipal and Industrial Waste	<p>DCI: ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Structure and Function</p> <p>EP&C: Principle II, Concept A; Concept B; Concept C; Principle III, Concept B; Concept C; Principle V, Concept A</p>
19.2 Minimizing Solid Waste	<p>DCI: ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Obtaining, Evaluating, and Communicating Information</p>

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<p>Continued 19.2 Minimizing Solid Waste</p>	<p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Structure and Function</p> <p>EP&C: Principle II, Concept A; Concept B; Concept C; Principle III, Concept B; Concept C; Principle V, Concept A</p>
<p>19.3 Hazardous Waste</p>	<p>DCI: ETS2.A: Interdependence of Science, Engineering, and Technology; ETS2.B: Influence of Engineering, Technology, and Science on Society and the Natural World</p> <p>SEP: Developing and Using Models; Analyzing and Interpreting Data; Using Mathematics and Computational Thinking; Constructing Explanations and Designing Solutions; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p>CCC: Patterns; Cause and Effect; Scale, Proportion, and Quantity; Systems and System Models; Energy and Matter; Structure and Function</p> <p>EP&C: Principle II, Concept A; Concept B; Concept C; Principle III, Concept B; Concept C; Principle V, Concept A</p>