

A Correlation of

Environmental Science
Your World, Your Turn ©2021



To the
Indiana
2016 Academic Standards for Science
Environmental Science

**A Correlation of Environmental Science: Your World, Your Turn ©2021
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Introduction

This document demonstrates how ***Environmental Science: Your World, Your Turn ©2021*** supports the Indiana 2016 Academic Standards for Environmental Science. References are to the Student and Teacher editions and are cited at the page level.

Environmental Science: Your World, Your Turn combines high-interest, real-world content with cutting-edge digital support and a variety of hands-on inquiry investigations to help ensure student success in environmental science. Phenomena drives student engagement through unit level Anchoring Phenomena, Claim Evidence Reasoning, Modeling Activities and Problem-Based learning projects. Acclaimed author and active researcher Jay Withgott shows students why learning environmental science is vital. Students dive deeper with 19 Investigative Phenomena Case Studies. These authentic, real-world applications of environmental science excite students and inspire their passion for the environment.

Anchoring Phenomenon: Launch every unit with an engaging Anchoring Phenomenon that introduces and unifies the upcoming environmental science concepts. Students track their knowledge throughout the unit in a Claims-Evidence-Reasoning or Modeling document and build understanding with an Anchoring Phenomenon Project.

Case Studies Drive Learning: Introduce every chapter with an Investigative Phenomenon Case Study. This engaging real-world case encourages students to draw connections between environmental science and their life while providing a storyline for students to follow. Students “Defend Their Case” at the end of the chapter.

Hands-on Inquiry: Editable hands-on inquiry activities, including labs, Take it Local, Real Data math practice, and Claim-Evidence- Reasoning documents support student understanding of the phenomenon under study.

Student Centered Experience: Facts, questions, and thought-provoking scenarios including Make a Difference, Find out More, and What Do You Think? appear throughout the book, empowering students to apply the science, make choices, and interact with content.

Award-Winning Digital Platform: Access all of your digital content, inquiry labs, planning materials, assessments, and student data in ONE location. The Savvas Realize™ digital platform includes offline capabilities, integration with learning management systems and editable documents and assessments. Our fully digital programs and e-books provide cutting-edge online instruction with a seamless transition from the textbook, allowing students to complete assignments, access videos and activities, and take online tests and remediation.

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Standard 1: Environmental Systems	
Indiana Academic Standard	
Env.1.1 Understand and explain that ecosystems have cyclic fluctuations, such as seasonal changes or changes in population, as a result of migration, birth, and mortality.	SE/TE: Factors That Determine Population Growth, 110-113 Real Data, 112 How Populations Grow, 114-115 Science Behind the Stories, 118-119 Population Cycles, 136 Chapter 5 Assessment, #29-#32, 161 Tropical Rain Forest, 168-169 Tropical Dry Forest, 170 Savanna, 171 Desert, 172 Temperate Rain Forest, 173 Temperate Forest, 174 Temperature Grassland, 175 Chaparral, 176 Boreal Forest, 177 Tundra, 178 Real Data, 179 Real Data, 493
Env.1.2 Understand and explain that human beings are part of Earth's ecosystems and give examples of how human activities can, deliberately or inadvertently, alter ecosystems.	SE/TE: Human Impacts, 82 Human Impacts, 85 Human Impacts, 86 Human Impacts, 88 Biodiversity Losses, 207 Causes of Biodiversity Loss, 209-211 Map It, 210 Population Distribution, 233 Impacts of Population, 242-246 Impacts of Technology, 246-247 Types of Water Pollution, 435-438 Groundwater Pollution, 439 Ocean Water Pollution, 440 Sources of Air Pollution, 462-463 Smog and Temperature Inversions, 465 Acid Deposition, 467-468
Env.1.3 Recognize and describe the difference between systems in equilibrium and systems in disequilibrium. Describe how steady state is achieved through negative and positive feedback loops.	SE/TE: Feedback Loops, 73-74 Ecological Succession, 149-153 Invasive Species, 153-155
Env.1.4 Diagram the cycling of carbon, nitrogen, phosphorus, and water and describe the human impacts on each.	SE/TE: The Water Cycle, 81-82 The Carbon Cycle, 83-85 The Phosphorus Cycle, 86 The Nitrogen Cycle, 87-89

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Env.1.5 Identify and measure biological, chemical, and physical (abiotic and biotic) factors within an ecosystem.	SE/TE: Go Outside, 102 Biotic and Abiotic Factors, 102-103
Env.1.6 Describe the difference between weather and climate. Locate, identify, and describe the major Earth biomes. Explain how biomes are determined by climate (temperature and precipitation patterns) that support specific kinds of plants.	SE/TE: Biomes and Climate, 165-166 Tropical Rain Forest, 168-169 Tropical Dry Forest, 170 Savanna, 171 Desert, 172 Temperate Rain Forest, 173 Temperate Forest, 174 Temperature Grassland, 175 Chaparral, 176 Boreal Forest, 177 Tundra, 178 Real Data, 179 Lesson 2 Assessment, #1, 180 Chapter 6 Assessment, #17, 196
Env.1.7 Identify tools and technologies used to adapt and alter environments and natural resources in order to meet human physical and cultural needs.	SE/TE: Changes in Agriculture, 229 Impacts of Population, 242-246 Impacts of Technology, 246-247 Pollution, 295 Heat Islands, 296 Imported Resources, 296 The Rise of Industrial Agriculture, 367 Technology, 368 Mining Methods, 399-402 Dams, 428-429 Water Treatment, 442-443 A Closer Look, 444-445 Drilling for Oil, 526 Natural Gas, 526 A Closer Look, 542-543 Ground Source Heat Pumps, 554-555 Generating Electricity with Hydropower, 557-558
Env.1.8 Explain the factors that influence weather and climate, the action of gravitational forces, and the rotation of the Earth.	SE/TE: Biomes and Climate, 165-166 The Troposphere and Weather, 458-460 Energy from the Sun, 484-487 Quick Lab, 486 Wind Patterns in the Atmosphere, 487 The Oceans and Climate, 488-489 Other Factors That Affect Climate, 489-490
Env.1.9 Describe how weather can be influenced by global climatic patterns, such as El Niño and La Niña.	SE/TE: The Oceans and Climate, 488-489

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Standard 2: Flow of Matter and Energy	
Env.2.1 Describe how matter cycles through sources and sinks and how energy is transferred. Explain how matter and energy move between and within components of an environmental system.	SE/TE: Producers and Consumers, 141-143 Real Data, 144 Energy and Biomass, 144-145 Food Webs, 146-147
Env.2.2 Identify the different forms of energy and understand that energy may be converted from one form to another, but cannot be created or destroyed.	SE/TE: Producers and Consumers, 141-143 Forms of Energy, 518-519
Env.2.3 Recognize and explain that the amount of life any environment can support is limited by the available energy, water, oxygen, nutrients and minerals, and by the ability of ecosystems to recycle organic materials from the remains of dead organisms.	SE/TE: Limiting Factors and Biotic Potential, 116-117 Detritivores and Decomposers, 143 Food Webs, 146-147
Env.2.4 Recognize and describe the different sources of energy, including fossil fuels, nuclear, and alternative sources of energy provided by water, wind, geothermal, biomass/biofuels, and the sun.	SE/TE: Alternate Sources of Electricity, 503 Vehicle Technology, 504 Sources and Uses of Energy, 520-521 How Fossil Fuels Form, 522-523 Coal, 523-524 Oil, 525-526 Natural Gas, 526 New Sources of Fossil Fuels, 528 Nuclear Energy, 537 Generating Electricity, 538 Benefits and Costs of Nuclear Power, 539 Nuclear Fusion: The Future?, 541 A Closer Look, 542-543 Central Case, 549 Biomass Energy, 551-553 Real Data, 552 Geothermal Energy, 553-555 Generating Electricity With Hydropower, 557-558 Energy From the Ocean, 559-560 Harnessing Solar Energy, 562-564 Harnessing Wind Power, 566-567 Map It, 568 Producing Hydrogen Fuel, 571-572 Fuel Cells, 572-573 Point-Counterpoint, 574-575

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Env.2.5 Give examples of the various forms and uses of fossil fuels and nuclear energy in our society.	SE/TE: Central Case, 515 How Fossil Fuels Form, 522-523 Coal, 523-524 Oil, 525-526 Natural Gas, 526 The Supply of Fossil Fuels, 527-528 Nuclear Energy, 537 Generating Electricity, 538 Benefits and Costs of Nuclear Power, 539-540 Nuclear Fusion: The Future?, 541 A Closer Look, 542-543
Env.2.6 Understand and describe how layers of energy-rich organic material have been gradually turned into great coal beds and oil pools by the pressure of the overlying earth. Recognize that by burning these fossil fuels, people are passing stored energy back into the environment as heat and releasing large amounts of matter such as carbon dioxide and other air pollutants.	SE/TE: Sources of Air Pollution, 462-463 How Fossil Fuels Form, 522-523 Figure 6 How Coal Forms, 523 Pollution From Fossil Fuels, 530-531
Env.2.7 Differentiate between renewable and nonrenewable resources, and compare and contrast the pros and cons of using nonrenewable resources.	SE/TE: Renewable or Nonrenewable?, 7 A Renewable Resource, 420 Renewable and Nonrenewable Energy, 520 Coal, 523-524 Oil, 525-526 Natural Gas, 526 The Supply of Fossil Fuels, 527-528 Real Data, 530 Pollution From Fossil Fuels, 530-531 Damage Caused by Extracting Fuels, 532-533 Benefits of Renewable Energy, 550
Env.2.8 Cite examples of how all fuels, renewable and nonrenewable, have advantages and disadvantages that society must question when considering the trade-offs among them, such as how energy use contributes to the rising standard of living in the industrially developing nations. However, explain that this energy use also leads to more rapid depletion of Earth's energy resources and to environmental risks associated with the use of fossil and nuclear fuels.	SE/TE: Impacts of Technology, 246-247 Pollution, 295 Imported Resources, 296 Ecological Footprints, 297 Oil Pollution, 440 Sources of Air Pollution, 462-463 Advantages of Coal, 524 Oil, 525-526 Pollution From Fossil Fuels, 530-531 Damage Caused by Extracting Fuels, 532-533 Energy Conservation, 535 Everyday Phenomenon, 536 Benefits and Costs of Nuclear Power, 539-540 Nuclear Fusion: The Future?, 541 Lesson 4 Assessment, #5, 541

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Env.2.8 Continued:	Continued: A Closer Look, 542-543 Chapter 17 Assessment, #39, 547 Central Case, 549 The Reasons for Alternative Energy, 550-551 Biomass Energy, 551-553 Real Data, 552 Geothermal Energy, 553-555 Benefits and Costs of Energy From Hydrogen, 572 Point Counterpoint, 574-575
Env.2.9 Describe how decisions to slow the depletion of energy sources through efficient technologies can be made at many levels, from personal to national, and these technologies always involve trade-offs of economic costs and social values.	SE/TE: Impacts of Technology, 246-247 Dependence on Foreign Sources, 534-535 Energy Conservation, 535 Lesson 3 Assessment, #5, 535 Benefits and Costs of Nuclear Power, 539 Nuclear Fusion: The Future?, 541 A Closer Look, 542-543 Central Case, 549 The Reasons for Alternative Energy, 550-551 Biomass Energy, 551-553 Geothermal Energy, 553-555 Lesson 1 Assessment, #4, 555 Three Gorges Dam: An Example, 559 Investigative Phenomenon, 566 Point Counterpoint, 574-575
Env.2.10 Understand and describe how nuclear reactions release energy without the combustion products of burning fuels, but that the radioactivity of fuels and by-products poses other risks which may last for thousands of years. Understand and assess the uses of nuclear fission and fusion, including the implications for society.	SE/TE: Everyday Phenomenon, 536 Nuclear Energy, 537 Generating Electricity, 538 Benefits and Costs of Nuclear Power, 539-540 Nuclear Fusion: The Future?, 541
Env.2.11 Recognize and describe the role of natural resources in providing the raw materials for an industrial society.	SE/TE: What Is Mined?, 398-399 Responsible Mineral Use, 411 How We Use Water, 426-427 Solutions to Freshwater Depletion, 432-434 How Energy Is Used, 521 How Coal Is Used, 524 How Petroleum Is Used, 525 Natural Gas, 526 Using Biomass as an Energy Source, 551 Biofuels, 552 Biopower, 552-553 How Fuel Cells Are Used, 573 Point-Counterpoint, 574-575

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Standard 3: Natural Disasters	
Env.3.1 Identify and describe geomorphic processes controlled by tectonics (i.e. volcanic activity, uplift, and shaping of landforms)	SE/TE: Plate Tectonics, 77 Types of Plate Boundaries, 78 Earthquakes, 277-278 Map It, 278 Volcanoes, 279
Env.3.2 Identify and describe tornado formation with the use of a weather map.	For supporting content, please see: SE/TE: Tornadoes, 280
Env.3.3 Read and describe a weather map in terms of pressure systems, fronts, and changing weather patterns	For supporting content, please see: SE/TE: Air Masses and Fronts, 460 Direct Measurement of Present Conditions, 493
Env.3.4 Identify natural Earth hazards, such as earthquakes and hurricanes, and identify the regions in which they occur as well as the short-term and long-term effects on the environment and on people.	SE/TE: Earthquakes, 277-278 Map It, 278 Volcanoes, 279 Storms, 280-282 Avalanches, 282-283
Standard 4: Environmental Policy	
Env.4.1 Explain environmental policies/organizations (Clean Water Act, Clean Air Act, Endangered Species Act, Species Survival Plan, Resource Conservation and Recovery Act, Department of Energy, and the World Health Organization) and identify their impact.	SE/TE: History of U.S. Environmental Policy, 44-45 Modern U.S. Environmental Policy, 46-47 Success Stories, 56-57 Legal Efforts, 212-213 Real Data, 214 Single-Species Approaches, 214-215 Ecosystem and Habitat Approaches, 215-217 Renewable Resource Management, 324-325 Soil Conservation Policies, 362-363 The Clean Water Act, 441 The Clean Air Act, 470-472 Real Data, 471 Ozone: A Success Story, 472-473 Success Stories, 474-475
Env.4.2 Understand that environmental policies/decisions have negative and positive impacts on people, societies, and the environment	SE/TE: Economics and the Environment, 37-39 Economics and Sustainability, 39-41 What Is Environmental Policy?, 42-43 History of U.S. Environmental Policy, 44-45 Modern U.S. Environmental Policy, 46-47 International Environmental Policy, 48-50 Approaches to Environmental Policy, 50-53 Real Data, 51 The Environmental Policy Process, 53-55

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Standard 5: Biodiversity	
Env.5.1 Explain how variation within a species increases the chances of survival of the species under changing environmental conditions.	SE/TE: Genetic Diversity, 202 Lesson 1 Assessment, #4, 206
Env.5.2 Explain how the great diversity of species increases the chance that at least some living organisms will survive in the event of major global changes.	For supporting content, please see: SE/TE: Species Diversity, 201 Biodiversity and Ecosystem Function, 204-205 Biodiversity at Risk, 207-208 Causes of Biodiversity Loss, 209-211 Success Stories, 218-219
Env.5.3 Explain genetic engineering and identify implications on the environment and society.	SE/TE: Genetically Modified Organisms, 375-377
Env.5.4 Describe, provide examples, and contrast GMO products, organic products, and conventional products. Describe and explain the environmental concerns associated with GMOs	SE/TE: Genetically Modified Organisms, 375-377 Industrial Food Production, 378-381 Sustainable Agriculture, 381-383
Env.5.5 Identify the indirect and direct threats to biodiversity (e.g. habitat loss and destruction, invasion by exotic species, commercial overfishing and hunting, pollution, climate change, and bioaccumulation and biomagnification of toxins)	SE/TE: Biodiversity at Risk, 207-208 Causes of Biodiversity Loss, 209-211 Map It, 210 Biomagnification, 275-276 Effects of Overgrazing, 360
Env.5.7 Identify and explain the three levels of biodiversity: genetic, species, and ecosystem	SE/TE: Biodiversity, 200-202 Lesson 1 Assessment, #1, 206
Standard 6: Population	
Env.6.1 Demonstrate, calculate, and explain how factors such as birth rate, death rate, and migration rate determine growth rates of populations.	SE/TE: Factors That Determine Population Growth, 110-113 Real Data, 112 How Populations Grow, 114-115

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<p>Env.6.2 Explain how the size and rate of growth of the human population in any location is affected by economic, political, religious, technological, and environmental (resource availability) factors</p>	<p>SE/TE: Central Case, 227 History of Human Population Growth, 228-229 Real Data, 230 Recent Trends in Human Population Growth, 230-231 Describing the Human Population, 232-233 Fertility Rate, 234-235 Age Structure and Sex Ratios, 235-237 Quick Lab, 237 The Demographic Transition, 238-239 Social Factors, 240-241 Impacts of Population, 242-246 Impacts of Technology, 246-247 Continuing Urbanization, 294 How Sprawl Occurs, 299-301 Real Data, 302 Impacts of Sprawl, 302-304</p>
<p>Env.6.3 Describe and give examples about how the decisions of one generation both provide and limit the range of possibilities open to the next generation.</p>	<p>For supporting content, please see: SE/TE: The Tragedy of the Commons, 11 Toward the Future, 27 Fertility Rate, 234-235 Age Structure and Sex Ratios, 235-237 Quick Lab, 237 The Demographic Transition, 238-239 Social Factors, 240-241 Impacts of Population, 242-246 Impacts of Technology, 246-247 Chapter 8 Assessment, #38, 253 City Planning, 305-308 Transportation Options, 309-310 Go Outside, 310 Open Space, 310-311 Green Building Design, 312 Urban Sustainability Success, 313</p>
<p>Env.6.4 Explain how the carrying capacity of an ecosystem may change as availability of resources changes.</p>	<p>SE/TE: Population Distribution, 107 Logistic Growth, 115 Population Growth in Nature, 115 Limiting Factors and Biotic Potential, 116-117</p>

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Standard 7: Pollution	
Env.7.1 Identify evidence, consequences, and prevention for climate change produced by anthropogenic sources.	SE/TE: Evidence of a Warming Earth, 491-492 Real Data, 493 Studying Climate Change, 493-495 Finding the Cause of Climate Change, 495-496 Effects on Ecosystems and Organisms, 497-499 Impact on People Right Now, 500 Future Impact on People, 501 Use and Production of Electricity, 502-503 Transportation, 504 Other Approaches to Reducing Greenhouse Gases, 505-506 Cooperation Among Nations, 506-507
Env.7.2 Differentiate between natural pollution and pollution caused by humans.	SE/TE: Ocean Water Pollution, 440 Sources of Air Pollution, 462-463
Env.7.3 Compare and contrast the effects of environmental stressors (i.e. herbicides, pesticides) on plants and animals. Give examples of secondary effects on other environmental components.	SE/TE: Changes in Agriculture, 229 Central Case, 255 Chemical Hazards on Land, 274 Biomagnification, 275-276 Pesticides, 364 Pests, 369-371 Groundwater Pollution, 439
Env.7.4 Explain what common household toxins are, what to do in an emergency, and what proper disposal is.	For supporting content, please see: SE/TE: Types of Chemical Hazards, 268-269 Indoor Chemical Hazards, 270-272
Env.7.5 Identify and describe the major air pollutants and their sources and impacts on the environment and human health.	SE/TE: Indoor Air Pollution, 270-272 Carbon Monoxide, 272 Chemical Hazards in Air, 273 Sources of Air Pollution, 462-463 How Air Pollutants Affect Your Health, 464 Smog and Temperature Inversions, 465-466 Go Outside, 467 Acid Deposition, 467-468 Success Stories, 474-475
Env.7.6 Understand and explain how the burning of fossil fuels releases energy, waste heat and matter (air pollutants)	SE/TE: Real Data, 530 Pollution From Fossil Fuels, 530-531

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Env.7.7 Describe and explain the product life cycle and waste stream and its implications to waste management. Explain the difference between reduce, reuse, and recycle	SE/TE: Central Case, 581 What Is Waste?, 582-584 Methods of Solid Waste Disposal, 584-588 Waste Reduction, 589-591 Quick Lab, 591 Waste Recovery, 592-595 Disposal of Hazardous Waste, 599-600 Radioactive Waste, 601 Hazardous Waste Regulation, 602-603 A Closer Look, 604-605
Standard 8: Natural and Anthropogenic Resource Cycles	
Env.8.1 Demonstrate a knowledge of the distribution of natural resources in the U.S. and the world, and explain how natural resources influence relationships among nations.	SE/TE: Timber Harvesting, 332 Real Data, 332 Deforestation, 335-336 Map It, 402 Coal, 523 Oil, 525 Dwindling Deposits, 527 Map It, 534 Dependence on Foreign Sources, 534-535 Benefits of Biomass Energy, 553
Env.8.2 Understand and describe the concept of integrated natural resource management and the values of managing natural resources as an ecological unit.	SE/TE: Renewable Resource Management, 324-327 Management Approaches, 327-329 U.S. National Forests, 337-339 Fire Policies, 340-342 Success Stories, 344-345 Energy Conservation, 535
Env.8.3 Recognize and explain that in evolutionary change, the present arises from the materials of the past and in ways that can be explained, such as the formation of soil from rocks and dead organic matter.	SE/TE: Soil, 352 Soil Formation, 353-354
Env.8.4 Describe how agricultural technology requires trade-offs between increased production and environmental harm and between efficient production and social values.	SE/TE: Development of Agriculture, 365-366 Industrial Agriculture, 367-368 Pests, 369-371 Genetically Modified Organisms, 375-377 Industrial Food Production, 378-381 Sustainable Agriculture, 381-383

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Env.8.5 Describe and examine how water is controlled in developed and undeveloped nations.	SE/TE: Where Is Our Water?, 420-421 How We Use Water, 426-427 Using Surface Water, 428-430 Using Groundwater, 430-432 Real Data, 431 Solutions to Freshwater Depletion, 432-434
Env.8.6 Understand and describe the concept and the importance of natural and human recycling in conserving our natural resources.	SE/TE: Responsible Mineral Use, 411 Chapter 13 Assessment, #33, 417 Recycling, 593-595 A Closer Look, 604-605
Env.8.7 Understand and explain that waste management includes considerations of quantity, safety, degradability, and cost. Also understand that waste management requires social and technological innovations because waste-disposal problems are political and economic as well as technical.	SE/TE: Pollution, 295 Temporary Storage of Nuclear Waste, 540 Long-Term Disposal, 540 Central Case, 581 Methods of Solid Waste Disposal, 584-588 Waste Reduction, 589-591 Waste Recovery, 592-595 Disposal of Hazardous Waste, 599-600 Hazardous Waste Regulation, 602-603

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