

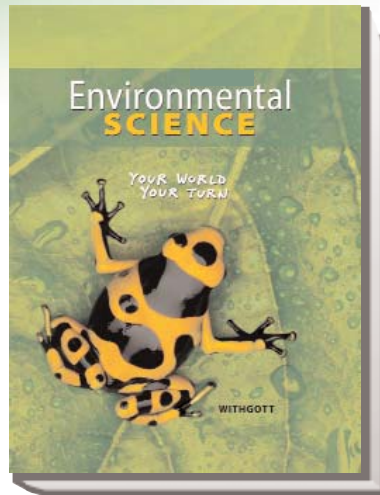
# Prentice Hall

Grades 11-12

*Environmental Science:*

*Your World, Your Turn (Withgott) © 2011*

(SE: 9780132534536, TE: 9780133170351)



C O R R E L A T E D T O

Louisiana GLE's for Environmental Science - course 150310

Grades 11-12

**SAVVAS**

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**Environmental Science Correlation**

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	<b>TO BE COMPLETED BY PUBLISHER</b>	<b>FOR COMMITTEE MEMBER USE ONLY</b>
<b>GRADE LEVEL EXPECTATIONS</b>	<b>CORRELATION NOTATIONS</b>	<b>✓ if the content of the text material is sufficient to allow students to adequately meet the GLE..</b>
<b>Science as Inquiry - <i>The Grade-Level Expectations (GLEs) from this strand should be interwoven with all content not just taught as a separate unit.</i></b>		
1. Write a testable question or hypothesis when given a topic (SI-H-A1)	<b>SE: 3, 99, 419 TECH: DVD ch.1, 4, 14</b>	
2. Describe how investigations can be observation, description, literature survey, classification, or experimentation (SI-H-A2)	<b>SE: 14-22 TECH: DVD ch.1</b>	
3. Plan and record step-by-step procedures for a valid investigation, select equipment and materials, and identify variables and controls (SI-H-A2)	<b>SE: 14-20 TECH: DVD ch.1</b>	
4. Conduct an investigation that includes multiple trials and record, organize, and display data appropriately (SI-H-A2)	<b>SE: 14-20, 24-25 TECH: DVD ch.1</b>	
5. Utilize mathematics, organizational tools, and graphing skills to solve problems (SI-H-A3)	<b>SE: 51, 122, 179, 220, 237, 251, 253, 289, 319, 346, 385, 411, 444, 473, 507 TECH: DVD ch. 2, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16</b>	
6. Use technology when appropriate to enhance laboratory investigations and presentations of findings (SI-H-A3)	<b>SE: 14-20, 263 TECH: DVD ch. 1, 9</b>	
7. Choose appropriate models to explain scientific knowledge or experimental results (e.g., objects, mathematical relationships, plans, schemes, examples, role-playing, computer simulations) (SI-H-A4)	<b>SE: 16-9, 209, 238-239, 437 TECH: DVD ch.5, 12, 16</b>	
8. Give an example of how new scientific data can cause an existing scientific explanation to be supported, revised, or rejected (SI-H-A5)	<b>SE: 14-20, 23-25 TECH: DVD ch.1</b>	

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9. Write and defend a conclusion based on logical analysis of experimental data (SI-H-A6) (SI-H-A2)	<b>SE: 14-20, 51, 122, 179, 220, 237, 251, 253, 289, 319 TECH: DVD ch. 1, 2, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16</b>	
10. Given a description of an experiment, identify appropriate safety measures (SI-H-A7)	<b>SE: 263, 573 TECH: DVD ch.9, 18</b>	
11. Evaluate selected theories based on supporting scientific evidence (SI-H-B1)	<b>SE: 14-20 TECH: DVD ch.1</b>	
12. Cite evidence that scientific investigations are conducted for many different reasons (SI-H-B2)	<b>SE: 14-20 TECH: DVD ch.1</b>	
13. Identify scientific evidence that has caused modifications in previously accepted theories (SI-H-B2)	<b>SE: 14-20, 23 TECH: DVD ch.1</b>	
14. Cite examples of scientific advances and emerging technologies and how they affect society (e.g., MRI, DNA in forensics) (SI-H-B3)	<b>SE: 215, 375-377 TECH: DVD ch.7, 12</b>	
15. Analyze the conclusion from an investigation by using data to determine its validity (SI-H-B4)	<b>SE: 20, 122, 220, 251, 346, 385, 411, 444, 473, 507 TECH: DVD ch.1, 4, 7, 8, 11, 12, 13, 14, 15, 16</b>	

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<p>16. Use the following rules of evidence to examine experimental results:</p> <ul style="list-style-type: none"> <li>a. Can an expert's technique or theory be tested, has it been tested, or is it simply a subjective, conclusive approach that cannot be reasonably assessed for reliability?</li> <li>b. Has the technique or theory been subjected to peer review and publication?</li> <li>c. What is the known or potential rate of error of the technique or theory when applied?</li> <li>d. Were standards and controls applied and maintained?</li> <li>e. Has the technique or theory been generally accepted in the scientific community? (SI-H-B5) (SI-H-B1) (SI-H-B4)</li> </ul>	<p><b>SE: 14-22</b> <b>TECH: DVD ch.1</b></p>	

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<b>Science and the Environment</b>		
<b>Ecological Systems and Interactions</b>		
1. Describe the abiotic and biotic factors that distinguish Earth's major ecological systems (SE-H-A1)	SE: 102-103, 164-166 TECH: DVD ch.4, 6	
2. Describe the characteristics of major biomes on Earth (SE-H-A1)	SE: 165-181 TECH: DVD ch.6	
3. Use the 10% rule and data analysis to measure the flow of energy as represented by biomass in a system (SE-H-A2)	SE: 144-145 TECH: DVD ch.5	
4. Determine the effects of limiting factors on a population and describe the concept of carrying capacity (SE-H-A3)	SE: 115-117 TECH: DVD ch.4	
5. Examine and discuss the major stages of succession, describing the generalized sequential order of the types of plant species (SE-H-A4)	SE: 149-153 TECH: DVD ch.5	
6. Analyze the consequences of changes in selected divisions of the biosphere (e.g., ozone depletion, global warming, acid rain) (SE-H-A5) (SE--H-A7)	SE: 369-370, 435-443, 462-469, 472-474, 491-501 TECH: DVD ch.12, 14, 15, 16	
7. Illustrate the flow of carbon, water, oxygen, nitrogen, and phosphorus through an ecosystem (SE-H-A6) (LS-H-D1)	SE: 81-89 TECH: DVD ch.3	
8. Explain how species in an ecosystem interact and link in a complex web (SE-H-A7) (SE-H-A10)	SE: 141-148 TECH: DVD ch.5	

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9. Cite and explain examples of organisms' adaptations to environmental pressures over time (SE-H-A8)	SE: 128-130 TECH: DVD ch.5	
10. Analyze the effect of an invasive species on the biodiversity within ecosystems (SE-H-A9)	SE: 153-155, 210 TECH: DVD ch.5, 7	
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11. Explain why biodiversity is essential to the survival of organisms (SE-H-A9)	SE: 200-206 TECH: DVD ch.7	
12. Give examples and describe the effect of pollutants on selected populations (SE-H-A11)	SE: 210, 267-276 TECH: DVD ch.7, 9	
<b>Resources and Resource Management</b>		
13. Evaluate whether a resource is renewable by analyzing its relative regeneration time (SE-H-B1)	SE: 7, 324, 420, 520-521 TECH: DVD ch.1, 11, 14, 17	
14. Analyze data to determine the effect of preservation practices compared to conservation practices for a sample species (SE-H-B2)	SE: 214-215 TECH: DVD ch.7	
15. Identify the factors that cause the inequitable distribution of Earth's resources (e.g., politics, economics, climate) (SE-H-B3)	SE: 6-11, 242-244 TECH: DVD ch.1, 8, Web p242	
16. Evaluate the effectiveness of natural resource management in Louisiana (SE-H-B4)(SE-H-B5)		
17. Analyze data to determine when reuse, recycling, and recovery are applicable (SE-H-B5)	SE: 247, 313, 411-412, 583, 589-595, 599-600, 604-605 TECH: DVD ch.8, 10, 13, 18, 19	

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18. Identify the factors that affect sustainable development (SE-H-B6)	<b>SE: 6-7, 39-41, 53-55, 215-217, 313, 325-330, 342-343, 362-363</b> <b>TECH: DVD ch.1, 2, 7, 10, 11, 12</b>	
<b>Environmental Awareness and Protection</b>		
19. Determine the interrelationships of clean water, land, and air to the success of organisms in a given population (SE-H-C1)	<b>SE: 38, 47, 125, 268-269, 325-326, 448-453</b> <b>TECH: DVD ch.2, 5, 9, 11, 14</b>	
20. Relate environmental quality to quality of life (SE-H-C2)	<b>SE: 24-27, 246, 255</b> <b>TECH: DVD ch. 1, 8, 9</b>	
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21. Analyze the effect of common social, economic, technological, and political considerations on environmental policy (SE-H-C3)	<b>SE: 19-20, 53-55, 245-246, 469-474</b> <b>TECH: DVD ch.1, 2, 8, 15, Web p54</b>	
22. Analyze the risk benefit ratio for selected environmental situations (SE-H-C4)	<b>SE: 19-20, 37-41, 53-55, 469-474</b> <b>TECH: DVD ch.1, 2, 15</b>	
23. Describe the relationship between public support and the enforcement of environmental policies (SE-H-C5)	<b>SE: 35, 42-55, 323</b> <b>TECH: DVD ch.2, 11</b>	
<b>Personal Choices and Responsible Actions</b>		
24. Identify the advantages and disadvantages of using disposable items versus reusable items (SE-H-D1)	<b>SE: 583, 589-590, 607-608</b> <b>TECH: DVD ch.19</b>	
25. Discuss how education and collaboration can affect the prevention and control of a selected pollutant (SE-H-D2) (SE-H-D3)	<b>SE: 47-50, 53, 271, 276, 479, 530</b> <b>TECH: DVD ch.2, 9, 15, 17</b>	

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26. Determine local actions that can affect the global environment (SE-H-D4)	<b>SE: 35, 43, 53, 63, 245-246, 313</b> <b>TECH: DVD ch.2, 3, 8, 10</b>	
27. Describe how accountability toward the environment affects sustainability (SE-H-D5)	<b>SE: 24-27, 39-41</b> <b>TECH: DVD ch.1, 2</b>	
28. Discuss the reduction of combustible engines needed to significantly decrease CO <sub>2</sub> in the troposphere (SE-H-D6)	<b>SE: 504, 552, 574-575</b> <b>TECH: DVD ch.16, 18</b>	



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<b>GLEs from other Strands that are integrated into the Environmental Science Course in the <i>Louisiana Comprehensive Curriculum</i> are found below.</b> <i>Inclusion of the GLEs below is not essential to selection or adoption of the instructional materials.</i>		
<b>Earth and Space Science</b>		
1. Describe what happens to the solar energy received by Earth. (ESS-H-A1)	SE: 141-143, 485-486, 562-563 TECH: DVD ch.5, 16, 18	
2. Trace the flow of heat energy through the processes in the water cycle (ESS-H-A1)	SE: 80-82, 487 TECH: DVD ch.3, 16	
8. Explain why weather only occurs in the tropospheric layer of Earth's atmosphere (ESS-H-A5)	SE: 455-460, 465-466 TECH: DVD ch.15	
9. Compare the structure, composition, and function of the layers of Earth's atmosphere (ESS-H-A6)	SE: 455-460 TECH: DVD ch.15	
10. Analyze the mechanisms that drive weather and climate patterns and relate them to the three methods of heat transfer. (ESS-H-A6)	SE: 458-460 TECH: DVD ch.15	
12. Relate lithospheric plate movements to the occurrences of earthquakes, volcanoes, mid-ocean ridge systems, and off-shore trenches found on Earth (ESS-H-A7)	SE: 74-79 TECH: DVD ch.3	
13. Explain how stable elements and atoms are recycled during natural geologic processes (ESS-H-B1)	SE: 72-74, 392-397 TECH: DVD ch.3, 13	
15. Identify the sun-driven processes that move substances at or near Earth's surface (ESS-H-B2)	SE: 77, 81-82, 83-89, 487, 490 TECH: DVD ch.3, 16	

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19. Interpret geological maps of Louisiana to describe the state geologic history (ESS-H-C3)		
20. Determine the chronological order of the five most recent major lobes of the Mississippi River delta in Louisiana (ESS-H-C3)		
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21. Use fossil records to explain changes in the concentration of atmospheric oxygen over time (ESS-H-C4)	<b>SE: 84-85, 452-453 TECH: DVD ch.3, 15</b>	
22. Analyze data related to a variety of natural processes to determine the time frame of the changes involved (e.g., formation of sedimentary rock layers, deposition of ash layers, fossilization of plant or animal species) (ESS-H-C5)	<b>SE: 77-80, 353-355 TECH: DVD ch.3, 12</b>	
<b>Life Science</b>		
18. Classify organisms from different kingdoms at several taxonomic levels, using a dichotomous key (LS-H-C4)	<b>SE: 64, 201, 203 TECH: DVD ch.3, 7</b>	
19. Compare characteristics of the major kingdoms (LS-H-C5)	<b>SE: 202 TECH: DVD ch.7</b>	
27. Analyze positive and negative effects of human actions on ecosystems (LS-H-D4)	<b>SE: 153-155, 184, 187, 199, 210-219, 240-247, 274-276, 295-298, 328-329, 335-336, 339-340, 360, 370 TECH: DVD ch.5, 6, 7, 8, 9, 10, 11, 12</b>	

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