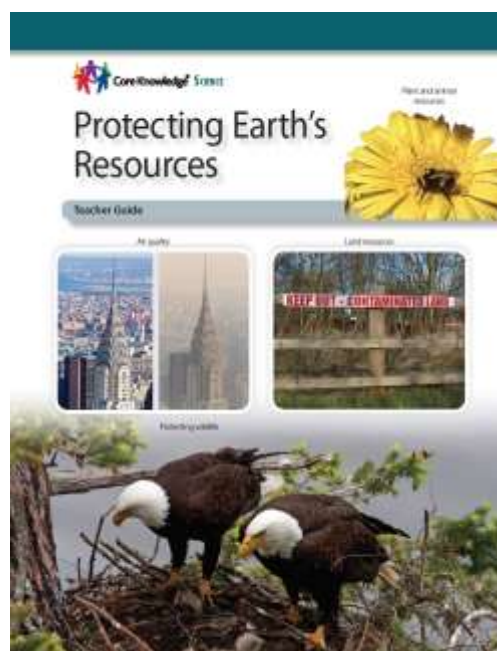


## Protecting Earth's Resources

Click on each lesson to access its online resources. Page numbers refer to pages in the Teacher Guide. Some links provide access to files created by the Core Knowledge Foundation, including PDF documents that you can download and view with the appropriate software (such as [Adobe Reader](#)).

	<a href="#">About This Unit</a>
Part A	<a href="#">Lesson 1</a>
Part B	<a href="#">Lesson 2</a>
	<a href="#">Lesson 3</a>
	<a href="#">Lesson 4</a>
	<a href="#">Lesson 5</a>
Part C	<a href="#">Lesson 6</a>
	<a href="#">Lesson 7</a>
	<a href="#">Lesson 8</a>
	<a href="#">Lesson 9</a>
Part D	<a href="#">Lesson 10</a>
	<a href="#">Lesson 11</a>
	<a href="#">Lesson 12</a>
	<a href="#">Lesson 13</a>
Part E	<a href="#">Lesson 14</a>
	<a href="#">Lesson 15</a>
Problem-Based Learning Project	<a href="#">Unit Capstone</a>
	<a href="#">Teacher Resources</a>





## Online Resources

### About This Unit

Page	Resource Links
1	<p>Note to Teachers and Curriculum Planners</p> <ul style="list-style-type: none"><li>The learning progressions of Disciplinary Core Idea <a href="#">ESS3.C</a> offers guidance regarding the scope and sequence of learning about Earth's Systems in the elementary grades and beyond.</li><li>Learn more about this core idea and its related content by reading the corresponding section of <a href="#">A Framework for K-12 Science Education</a>.</li></ul> <p>See also the <a href="#">Teachers Resources</a> section of this guide.</p>
2	<p>Notes to Core Knowledge Teachers: 2019 Core Knowledge Science Sequence for this unit: Domain—<a href="#">Protecting Earth's Resources</a> CKSci correlations to the 2010 Core Knowledge Sequence—</p> <ul style="list-style-type: none"><li><a href="#">GRADE 3</a></li><li><a href="#">GRADE 4</a></li><li><a href="#">GRADE 5</a></li><li><a href="#">Interactive graphic of these correlations</a></li></ul>
4	<p>This unit has been informed by the following Next Generation Science Standards (NGSS) Performance Expectation:</p> <p>Topic—<a href="#">5. Earth Systems</a></p> <ul style="list-style-type: none"><li><a href="#">5-ESS3.1</a></li></ul>
13	<a href="#">Resources for Effective and Safe Classroom Activities</a>
15	<a href="#">Materials Supply List: Grade 3 Unit 3 Protecting Earth's Resources</a>
17	<a href="#">Pacing Guides for CKSci Grades 3–5</a>

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## Part A: Protecting Earth's Resources

### Lesson 1

Page	Resource Links
21	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
23	<a href="#">Modeling Earth's Systems key concepts</a>
25	[WEBLINK] <a href="#">EPA website</a>
27	[WEBLINK] <a href="#">EPA website</a>
	[WEBLINK] <a href="#">Research resource</a>

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## Part B: Protecting Earth's Water

### Lesson 2

Page	Resource Links
29	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
31	[WEBLINK] <a href="#">Water quality engagement activities</a> [WEBLINK] <a href="#">USGS brainstorming support</a>
32	[WEBLINK] <a href="#">Brainstorming support</a>

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## Lesson 3

Page	Resource Links
38	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
43	[VIDEO] <a href="#">Boyan Slat</a>
44	[WEBLINK] <a href="#">EPA Water Topics</a>
	[WEBLINK] <a href="#">Research Resource</a>
	[WEBLINK] <a href="#">Research Resource</a>

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## Lesson 4

Page	Resource Links
46	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
48	[IMAGES] <a href="#">Water pollution</a>
49	[WEBLINK] <a href="#">Satellite-view map resource</a>

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## Lesson 5

Page	Resource Links
52	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
54	[WEBLINK] <a href="#">Discussion resource</a> [WEBLINK] <a href="#">Map resource</a>

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## Part C: Protecting Earth's Air

### Lesson 6

Page	Resource Links
59	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
62	[VIDEO] <a href="#">Smog</a> [0:23+]
63	[VIDEO] <a href="#">Vertical forest</a>

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## Lesson 7

Page	Resource Links
65	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
69	[WEBLINK] <a href="#">Air quality</a>

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## Lesson 8

Page	Resource Links
71	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
72	[WEBLINK] <a href="#">Air quality</a>

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## Lesson 9

Page	Resource Links
76	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
78	[VIDEO] <a href="#">Cyclone</a>

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## Part D: Protecting Earth's Land

### Lesson 10

Page	Resource Links
82	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
85	[VIDEO] <a href="#">Landfill construction 1</a> [VIDEO] <a href="#">Landfill construction 2</a>
86	[WEBLINK] <a href="#">Discussion support</a>

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## Lesson 11

Page	Resource Links
88	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li></ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li></ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li></ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li></ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>

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## Lesson 12

Page	Resource Links
94	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
97	[WEBLINK] <a href="#">USGS map</a>

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## Lesson 13

Page	Resource Links
99	Performance Expectation: <ul style="list-style-type: none"> <li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li></ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 194–196</a></li></ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 74–77</a></li></ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>• From the Framework: <a href="#">Pages 91–94</a></li></ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>

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## Online Resources

### Part E: Taking Local Action

#### Lesson 14

Page	Resource Links
105	Performance Expectation: <ul style="list-style-type: none"><li>• <a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li></ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"><li>• From the Framework: <a href="#">Pages 194–196</a></li></ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"><li>• From the Framework: <a href="#">Pages 74–77</a></li></ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"><li>• From the Framework: <a href="#">Pages 91–94</a></li></ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>

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## Lesson 15

Page	Resource Links
110	Performance Expectation: <ul style="list-style-type: none"> <li><a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
111	[IMAGES] Unspoiled versus impacted ecosystems <a href="#">Forest</a> / <a href="#">logging</a> <a href="#">Desert</a> / <a href="#">urbanization</a> <a href="#">Grassland</a> / <a href="#">agriculture</a> <a href="#">Tundra</a> / <a href="#">pollution</a>

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## Problem-Based Learning Project

### Unit Capstone: Sharing Community Solutions

Page	Resource Links
116	Performance Expectation: <ul style="list-style-type: none"> <li><a href="#">5-ESS3-1</a> <a href="#">Evidence Statements</a> for 5-ESS3-1</li> </ul>
	Disciplinary Core Idea: ESS3.C <i>Human Impacts on Earth Systems</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 194–196</a></li> </ul>
	Science and Engineering Practices: <i>Obtaining, Evaluating, and Communicating Information</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 74–77</a></li> </ul>
	Crosscutting Concept: <i>System and System Models</i> <ul style="list-style-type: none"> <li>From the Framework: <a href="#">Pages 91–94</a></li> </ul>
	Crosscutting Concept: <i>Science Addresses Questions About the Natural and Material World</i> <a href="#">Connections to the Nature of Science</a>
117	[IMAGES] Unspoiled versus impacted ecosystems <a href="#">Forest</a> / <a href="#">logging</a> <a href="#">Desert</a> / <a href="#">urbanization</a> <a href="#">Grassland</a> / <a href="#">agriculture</a> <a href="#">Tundra</a> / <a href="#">pollution</a>

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## Online Resources

### Teacher Resources

Page	Resource Links
13	<a href="#">Resources for Effective &amp; Safe Classroom Activities</a> ( <i>also, see below re: page 169</i> )
15	<a href="#">Materials Supply List: Grade 5 Unit 4 Protecting Earth's Resources</a>
162	<a href="#">Activity Pages Answer Key</a>
169	Safety in the Science Classroom: <ul style="list-style-type: none"><li>• <a href="#">NSTA Safety Resources</a></li><li>• <a href="#">Safety Resources for Elementary Teachers</a></li></ul>
	<b>Teacher Guide Appendices:</b> <ul style="list-style-type: none"><li>• <a href="#">Appendix A – Glossary</a></li><li>• <a href="#">Appendix B – Safety for Activities</a></li><li>• <a href="#">Appendix C – Strategies for Acquiring Materials</a></li><li>• <a href="#">Appendix D – Advance Preparation</a></li><li>• <a href="#">Appendix E – Unexpected Activity Results</a></li></ul>

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