

Natural Resource Science Curriculum Map

Grade 10-12 Content Science Teacher(s) Mr. Brown

	Time period (month? Weeks? Quarter?)	Focus Standard	Assessment	Essential Question	Resources	Differentiation
Unit 1: Introduction						
<ul style="list-style-type: none"> Chapter 1: Our Natural Resources 	One Week	Standard 3: Objective 1	Managing Our Natural Resources 6th Edition Page 12 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 2-5 Vocabulary Quiz	Explain what makes something a natural resource.	Managing Our Natural Resources 6th Edition Pages 2-12 Powerpoint Presentation	Have students do a presentation/ other option on the natural resources in McGraw.
<ul style="list-style-type: none"> Chapter 2: A History of Conservation in the United States 	One Week	Standard 3: Objective 2	Managing Our Natural Resources 6th Edition Page 24 Review Questions, Discussion	Describe the role of the federal government in conservation.	Managing Our Natural Resources 6th Edition Pages 13-24 Powerpoint	Have students research how conservation efforts in the U.S. have changed in the past 250 years and lead a class

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			<p>Questions, and Suggested Activities</p> <p>Workbook pages 6-9</p> <p>Vocabulary Quiz</p>		Presentation	discussion.
<ul style="list-style-type: none"> Chapter 3: Concepts in Natural Resources Management 	Two Weeks	Standard 3: Objective 2	<p>Managing Our Natural Resources 6th Edition</p> <p>Page 40 Review Questions, Discussion Questions, and Suggested Activities</p> <p>Workbook pages 10-14</p> <p>Vocabulary Quiz</p> <p>Unit 1 Test Chapters 1-3</p>	<p>Explain the differences between nonrenewable, renewable, and exhaustible natural resources.</p>	<p>Managing Our Natural Resources 6th Edition</p> <p>Pages 25-41</p> <p>Powerpoint Presentation</p>	<p>Have students make a poster/ presentation to show the differences between nonrenewable, renewable, and exhaustible natural resources.</p>
<p>Unit 2 : Soil and Land Resources</p>						
<ul style="list-style-type: none"> Chapter 4: 	One to Two	Standard 4:	Managing Our	Explain the	Managing Our	Dig several pits

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Soil	Week(s)	Objective 2	Natural Resources 6th Edition Page 57-58 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 16-21 Vocabulary Quiz	processes involved in soil formation.	Natural Resources 6th Edition Pages 46-58 Powerpoint Presentation	outside and analyze the soil profiles at various locations. Students will take pictures and create a presentation on their profile. We will have a class discussion about the similarities and differences.
<ul style="list-style-type: none"> Chapter 5: Soil Erosion 	One to Two Week(s)	Standard 4: Objective 2	Natural Resources 6th Edition Page 67 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 22-26 Vocabulary Quiz	Explain the difference between natural soil erosion and soil erosion caused by humans.	Managing Our Natural Resources 6th Edition Pages 59-67 Powerpoint Presentation	Watch the 1940 movie <i>The Grapes of Wrath</i> and organize a class discussion on the causes and effects of the Dust Bowl on Americans who lived in the region.

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<p>Chapter 6: Controlling Erosion on the Farm</p>	<p>Two Weeks</p>	<p>Standard 4: Objective 3</p>	<p>Natural Resources 6th Edition Page 79-80 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 27-31 Vocabulary Quiz</p>	<p>Explain why soil erosion control should be important to every farmer.</p>	<p>Managing Our Natural Resources 6th Edition Pages 68-80 Powerpoint Presentation</p>	<p>Invite a local farmer in to discuss soil and water conservation. Do and internet activity on ancient terrace farming and have students present their findings.</p>
<p>Chapter 7: Nonfarm Erosion Control</p>	<p>Two Weeks</p>	<p>Standard 3: Objective 2</p>	<p>Natural Resources 6th Edition Page 89-90 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 32-35 Vocabulary Quiz</p>	<p>Explain the relationship between mining or construction and erosion.</p>	<p>Managing Our Natural Resources 6th Edition Pages 81-90 Powerpoint Presentation</p>	<p>Have students do a presentation/ project on the different types of mining.</p>

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<p>Chapter 8: Rangeland Management</p>	<p>One to Two Week(s)</p>	<p>Standard 5: Objective 1</p>	<p>Natural Resources 6th Edition Page 104-105 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 36-42 Vocabulary Quiz</p>	<p>Explain the importance of rangeland and its careful management.</p>	<p>Managing Our Natural Resources 6th Edition Pages 91-105 Powerpoint Presentation</p>	<p>Write a short history of barbed wire and the role it played in the development of the American Great Plains.</p>
<p>Chapter 9: Landfills and Solid Waste Management</p>	<p>Two Weeks</p>	<p>Standard 6: Objective 1</p>	<p>Natural Resources 6th Edition Page 120-121 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 43-47 Vocabulary Quiz</p>	<p>Explain how natural attenuation works and when it is an appropriate means of solid waste disposal.</p>	<p>Managing Our Natural Resources 6th Edition Pages 106-121 Powerpoint Presentation</p>	<p>Do a presentation/ project on the latest report on municipal solid waste in the U.S. from the E.P.A. website.</p>

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<p>Chapter 10: Wetland Preservation and Management</p>	<p>Two Weeks</p>	<p>Standard 4: Objective 3</p>	<p>Natural Resources 6th Edition Page 138-139 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 48-54 Vocabulary Quiz</p>	<p>Explain the major wetland management practices and list the major governmental agencies regulating wetlands.</p>	<p>Managing Our Natural Resources 6th Edition Pages 122-139 Powerpoint Presentation</p>	<p>Using the National Wetlands Inventory map online. Construct a general analysis of the wetland and present it to the class.</p>
<p>Chapter 11: Land-Use Planning</p>	<p>Two Weeks</p>	<p>Standard 7: Objective 2</p>	<p>Natural Resources 6th Edition Page 148-149 Review Questions, Discussion Questions, and Suggested Activities Workbook pages 55-58 Vocabulary Quiz</p>	<p>Explain why land-use planning is important to our ecosystems and to our economy.</p>	<p>Managing Our Natural Resources 6th Edition Pages 140-149 Powerpoint Presentation</p>	<p>Have a member of the planning or zoning commission visit our class to discuss political land-use planning.</p>

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Chapter 12: Careers in Soil Management	Two Weeks	Standard 5: Objective 1	<p>Natural Resources 6th Edition</p> <p>Page 156-157</p> <p>Review</p> <p>Questions, Discussion Questions, and Suggested Activities</p> <p>Workbook pages 59-63</p> <p>Vocabulary Quiz</p> <p>Unit 2 Test</p> <p>Chapters 4-12</p>	Describe several major career areas in soil and rangeland conservation and list the kinds of training needed for entry into those careers.	<p>Managing Our Natural Resources 6th Edition</p> <p>Pages 150-157</p> <p>Powerpoint Presentation</p>	Students will select an occupation in soil management and do a project/ presentation.