

**Youngstown City Schools
Grade 3 Science Pacing Guide
Grading Period 4**

Strand/Content Statement	Duration	Clear Learning Targets	Curriculum Resources	Vocabulary/Concepts
<p>EARTH SCIENCE</p> <p>Earth's nonliving resources have specific properties. 3.ESS.1.</p>	<p>Weeks 1-4</p>	<p>“I Can...”</p> <ul style="list-style-type: none"> <input type="checkbox"/> explore characteristics of rocks through observation, measurement, and testing. <input type="checkbox"/> compare characteristics of various rocks <input type="checkbox"/> explain the process by which rocks are formed. <input type="checkbox"/> compare different types of soil according to their characteristics. <input type="checkbox"/> test the ability of water to pass through soil samples. <input type="checkbox"/> observe that the proper type of soil can be used as a resource to support plant life. 	<p><u>Curriculum Units:</u> Rock On! Soil Scientists</p> <p><u>Science Textbook</u></p> <p><u>Discovery Education:</u> www.discoveryeducation.com</p> <ul style="list-style-type: none"> • Rocks: The Solid Earth Materials #1(20:00 – all segments) • Rocks: The Solid Earth Materials #2(segment 1-3, 6-8) • Getting to Know: Soil (all segments) <p><u>Ohio Department of Education - Science:</u> http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science</p> <p>GIZMOS www.explorelearning.com</p>	<p>3.ESS.1 Characteristic Classify/sort Compare Composition Moisture level Organic material Particle Properties Resource Rock Sampling (of rocks) Soil Texture</p>

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<p>EARTH SCIENCE</p> <p>Earth's resources can be used for energy. 3.ESS.2</p>	<p>Weeks 5-7</p>	<p>“I Can...”</p> <ul style="list-style-type: none"> <input type="checkbox"/> demonstrate and explain the advantages and disadvantages of one energy source on the environment. <input type="checkbox"/> compare and contrast various energy sources to determine their advantages and disadvantages for use in Columbus, Ohio. <input type="checkbox"/> state whether an energy source is renewable or nonrenewable. <input type="checkbox"/> identify how Ohio's energy sources compare to those of other states. 	<p><u>Curriculum Units:</u> I'm A Resident Expert On Energy</p> <p><u>Science Textbook</u></p> <p><u>Discovery Education:</u> www.discoveryeducation.com</p> <ul style="list-style-type: none"> • More Facts About Energy 2: 31 min • Solar Energy and Steam Power 3:25 min • The Sun's Energy 2:13 • The Green Earth Club: Solar Energy 15:00 min • Wind-powered generators at Palm Springs, 1993 • Land Use in the U.S.: Coal and Oil 2:10 min • Power of Imagination 3:09 min • Alternatives to Fossil Fuels 4:53 min • Renewable Sources of Electrical Energy 3:58 min • Nuclear Energy 1:49 min • Cutting Air Pollution 3:56 min • Hydroelectric Power :19 min • The Planet Electric 7:20 min • Oil :55 min • The Demand for Hydroelectricity 1:25 min <p>GIZMOS www.explorelearning.com</p>	<p>3.ESS.2</p> <p>conservation of energy finite limited resources natural non-renewable renewable replenished resources solar energy</p>

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<p>EARTH SCIENCE</p> <p>Some of Earth's resources are limited.</p> <p>3.ESS.3</p>	<p>Weeks 8-9</p>	<p>“I Can...”</p> <ul style="list-style-type: none"> <input type="checkbox"/> name natural resources and explain how they are used by people. <input type="checkbox"/> explain why some resources are limited. <input type="checkbox"/> identify ways that people can conserve resources. <input type="checkbox"/> demonstrate ways to reduce, reuse, and recycle materials. 	<p><u>Curriculum Units:</u> Let's Conserve Our Resources!</p> <p><u>Science Textbook</u></p> <p><u>Discovery Education:</u> www.discoveryeducation.com</p> <ul style="list-style-type: none"> • The Business of Recycling 2:29 min • Other Tips for Recycling 1:39 min • Recycling: A Class Project 3:04 min • The Three Stages of Recycling 2:31 min • A Field Trip to the Recycling Plant 3:02 min • How Recycling Helps Keep Our Community Clean 2:04 min • Green Tips: Recycling Strategies for the Home and Concluding Comments about the Benefits of Recycling 1:42 min • Kids Sing a Rap About Recycling :42 min • The Green Earth Club: A Recycling Update 14:39 min <p><u>Ohio Department of Education - Science:</u> http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science</p> <p>GIZMOS www.explorelearning.com</p>	<p>3.ESS.3</p> <p>Reduce Reuse Recycle Conservation Resource Overuse Limited Contamination</p>