

Grade 8

Matter: Properties and Changes

Standards	FOSS Alignment	Assessment
<p>8.P.1 Understand the properties of matter and changes that occur when matter interacts in an open and closed container.</p>		
<p><i>The new FOSS Second Edition Chemical Interactions, scheduled for release March 2016, will cover this Clarifying Objective. See below for current FOSS First Edition Chemical Interactions assessments.</i></p>		
<p>8.P.1.1. Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.</p>	<p>FOSS First Edition Chemical Interactions Investigation 3: Particles Part 2: Air is Matter pp. 99-107 Part 3: Air as Particles pp. 108-113</p> <p>FOSS Second Edition Chemical Interactions Investigation 2: Elements Investigation 3: Particles Investigation 4: Kinetic Energy Investigation 7: Solutions</p>	<p>Investigation 3 Mid-Summative Exam</p>
	<p>FOSS First Edition Chemical Interactions <i>FOSS Science Resources:</i> "Particles" pp. 14-15 "Three Phases of Matter" pp. 16-22</p> <p><i>FOSS Digital Resources:</i> "Gas in a Syringe"</p>	<p>Lab Notebook, page 31 - Students answer review questions after reading the article, Three Phases of Matter</p>
	<p>FOSS First Edition Chemical Interactions Investigation 4: Kinetic Energy</p>	<p>Investigation 4 Mid-Summative Exam,</p>
	<p>FOSS First Edition Chemical Interactions Investigation 4: Kinetic Energy Part 1: Gas Expansion pp. 122-129</p>	<p>Lab Notebook Sheets, pages 32-33 - have students complete parts 4 and 5.</p>
	<p>FOSS First Edition Chemical Interactions Investigation 4: Kinetic Energy Part 2: Liquid Expansion pp. 130-138 Part 3: Solid Expansion pp. 139-142</p> <p><i>FOSS Science Resources:</i> "Particles in Motion" pp. 23-27 "Expansion and Contraction" pp. 28-31</p> <p><i>FOSS Digital Resources:</i> "Particles in Solid, Liquid, and Gas"</p>	<p>Response Sheet - Kinetic Energy</p>
	<p>FOSS First Edition Chemical Interactions Investigation 7: Phase Change</p>	<p>Investigation 7 Mid-Summative Exam</p>
	<p>FOSS First Edition Chemical Interactions Investigation 7: Phase Change Part 1: Dissolve and Melt pp. 204-209</p>	<p>Lab Notebook Sheet, page 61</p>
	<p>FOSS First Edition Chemical Interactions Investigation 7: Phase Change Part 2: Melting Temperature pp. 210-214</p>	<p>Quick-Write Self-Assessment</p>

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Matter: Properties and Changes (cont.)

Standards	FOSS Alignment	Assessment
8.P.1 Understand the properties of matter and changes that occur when matter interacts in an open and closed container.		
8.P.1.1. Classify matter as elements, compounds, or mixtures based on how the atoms are packed together in arrangements.	FOSS First Edition Chemical Interactions Investigation 7: Phase Change Part 3: More Heat pp. 215-221	Response Sheet - Phase Change
	FOSS First Edition Chemical Interactions Investigation 7: Phase Change Part 4: Freeze Water pp. 222-228 Part 5: Gas to Solid pp. 229-234 <i>FOSS Science Resources:</i> "Rock Solid" pp. 42-48 <i>FOSS Digital Resources:</i> "Particles in Solid, Liquid, and Gas"	Lab Notebook Sheet, page 63 - Rock Solid Questions
	FOSS First Edition Chemical Interactions Investigation 8: Solutions	Investigation 8 Mid-Summative Exam
	FOSS First Edition Chemical Interactions Investigation 8: Solutions Part 1: Mixtures pp. 248-255 Part 2: Saturation pp. 256-262	Lab Notebook Sheet 61 - Solutions
	FOSS First Edition Chemical Interactions Investigation 8: Solutions Part 3: Concentration pp. 263-268 <i>FOSS Science Resources:</i> "Concentration" pp. 54-63	Lab Notebook Sheet, page 85 - Concentration Questions
<i>The new FOSS Second Edition Chemical Interactions, scheduled for release March 2016, will cover this Clarifying Objective. See below for current FOSS First Edition Chemical Interactions assessments.</i>		
8.P.1.2. Explain how the physical properties of elements and their reactivity have been used to produce the current model of the Periodic Table of elements.	FOSS First Edition Chemical Interactions Investigation 2: Elements FOSS Second Edition Chemical Interactions Investigation 2: Elements	Investigations 1-2 Mid-Summative Exam
	FOSS First Edition Chemical Interactions Investigation 2: Elements Part 1: Periodic Table pp. 70-74 Part 2: Elements in the World pp. 75-80 <i>FOSS Science Resources:</i> "Elements" pp. 3-8 "Elements in the Universe" pp. 9-13 "The Periodic Table" pp. 90-91 <i>FOSS Digital Resources:</i> "Periodic Table"	Response Sheet - Elements

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<p>8.P.1 Understand the properties of matter and changes that occur when matter interacts in an open and closed container.</p>		
<p><i>The new FOSS Second Edition Chemical Interactions, scheduled for release March 2016, will cover this Clarifying Objective. See below for current FOSS First Edition Chemical Interactions assessments.</i></p>		
<p>8.P.1.3. Compare physical changes such as size, shape and state to chemical changes that are the result of a chemical reaction to include changes in temperature, color, formation of a gas or precipitate.</p>	<p>FOSS First Edition Chemical Interactions Investigation 7: Phase Change</p> <p>FOSS Second Edition Chemical Interactions Investigation 1: Substances Investigation 8: Phase Change Investigation 9: Reaction Investigation 10: Limiting Factors</p>	<p>Investigation 7 Mid-Summative Exam</p>
	<p>FOSS First Edition Chemical Interactions Investigation 7: Phase Change Part 1: Dissolve and Melt pp. 204-209</p>	<p>Lab Notebook Sheet, page 61</p>
	<p>FOSS First Edition Chemical Interactions Investigation 7: Phase Change Part 2: Melting Temperature pp. 210-214</p>	<p>Quick-Write Self-Assessment</p>
	<p>FOSS First Edition Chemical Interactions Investigation 7: Phase Change Part 3: More Heat pp. 215-221</p>	<p>Response Sheet - Phase Change</p>
	<p>FOSS First Edition Chemical Interactions Investigation 7: Phase Change Part 4: Freeze Water pp. 222-228 Part 5: Gas to Solid pp. 229-234</p> <p><i>FOSS Science Resources:</i> "Rock Solid" pp. 42-48</p> <p><i>FOSS Digital Resources:</i> "Particles in Solid, Liquid, and Gas"</p>	<p>Lab Notebook Sheet, page 63 - Rock Solid Questions</p>
	<p>FOSS First Edition Chemical Interactions Investigation 9: Reaction</p>	<p>Investigation 9 Mid-Summative Exam</p>
	<p>FOSS First Edition Chemical Interactions Investigation 9: Reaction Part 1: Substance Models pp. 280-287</p>	<p>Lab Notebook Sheet, page 87 - Analyzing Substances</p>
	<p>FOSS First Edition Chemical Interactions Investigation 9: Reaction Part 2: Limewater Reaction pp. 288-297</p>	<p>Lab Notebook Sheet, page 89 - Limewater Reaction - B</p>
	<p>FOSS First Edition Chemical Interactions Investigation 9: Reaction Part 3: Baking Soda and Acid pp. 298-307</p>	<p>Lab Notebook, page 95 - Response Sheet - Reaction</p>

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Matter: Properties and Changes (cont.)

Standards	FOSS Alignment	Assessment
8.P.1 Understand the properties of matter and changes that occur when matter interacts in an open and closed container.		
8.P.1.3. Compare physical changes such as size, shape and state to chemical changes that are the result of a chemical reaction to include changes in temperature, color, formation of a gas or precipitate.	FOSS First Edition Chemical Interactions Investigation 9: Reaction Part 4: Antacid pp. 308-312 <i>FOSS Science Resources:</i> "Antoine-Laurent Lavoisier: The Father of Modern Chemistry" pp. 69-72 <i>FOSS Digital Resources:</i> "Limewater Reaction Set-up Video"	Lab Notebook Sheet, page 97 - Antoine-Laurent Lavoisier: The Father of Modern Chemistry Questions
	FOSS First Edition Chemical Interactions Investigation 10: More Reactions	Unit Summative Exam
	FOSS First Edition Chemical Interactions Investigation 10: More Reactions Part 1: Citric Acid and Baking Soda pp. 323-329 Part 2: Rust pp. 330-336 <i>FOSS Digital Resources:</i> "Atoms and Molecules Video"	Lab Notebook, page 101 - Citric Acid/Baking Soda Reaction
<i>The new FOSS Second Edition Chemical Interactions, scheduled for release March 2016, will cover this Clarifying Objective. See below for current FOSS First Edition Chemical Interactions assessments.</i>		
8.P.1.4. Explain how the idea of atoms and a balanced chemical equation support the law of conservation of mass.	FOSS First Edition Chemical Interactions Investigation 9: Reaction FOSS Second Edition Chemical Interactions Investigation 9: Reaction Investigation 10: Limiting Factors	Investigation 9 Mid-Summative Exam
	FOSS First Edition Chemical Interactions Investigation 9: Reaction Part 2: Limewater Reaction pp. 288-297	Lab Notebook Sheet, page 89 - Limewater Reaction - B
	FOSS First Edition Chemical Interactions Investigation 9: Reaction Part 3: Baking Soda and Acid pp. 298-307 <i>FOSS Science Resources:</i> "How Do Atoms Rearrange?" pp. 63-68 "Organic Compounds" pp. 73-77	Lab Notebook, page 95 - Response Sheet - Reaction
	FOSS First Edition Chemical Interactions Investigation 10: More Reactions Part 2: Rust pp. 330-336 <i>FOSS Digital Resources:</i> "Atoms and Molecules Video"	Unit Summative Exam

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Energy: Conservation and Transfer

Standards	FOSS Alignment	Assessment
8.P.2 Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.		
<p>8.P.2.1. Explain the environmental consequences of the various methods of obtaining, transforming and distributing energy.</p>	<p>FOSS Second Edition Earth History Investigation 8: Geoscenarios</p>	<p>Performance Assessment: Students put into practice the concepts and tools learned throughout the course to collect and analyze geological evidence. Their goal is to tell a geological story of a specified location, selected for their geological significance: glaciers, coal, Yellowstone hotspot, and oil. Students conduct research to understand the story of the place, the processes that shape the place, and the implications for human interests. See Earth History Teacher Resources book, Notebook Masters, pages 46-49.</p>
	<p>FOSS Second Edition Earth History Investigation 8: Geoscenarios Part 1: Introduction to the Project? pp. 489-499</p>	<p>FQA: Students conduct research to answer the question, "What do we need to know to tell the geological story of a place?" providing evidence and reasoning to support their claim through the eyes of an expert.</p>
	<p>FOSS Second Edition Earth History Investigation 8: Geoscenarios Part 2: Research and Writing pp. 500-509</p>	<p>FQA: Students conduct research to answer the question, "What do we need to know to tell the geological story of a place?" providing evidence and reasoning to support their claim through the eyes of an expert.</p>
	<p>FOSS Second Edition Earth History Investigation 8: Geoscenarios Part 3: Presentations pp. 510-516</p> <p><i>FOSS Digital Resources:</i> "Geoscenarios"</p> <p><i>FOSS Science Resources:</i> "Geoscenario Introduction – Glaciers" pp. 81-85 "Geoscenario Introduction – Coal" 86-89 "Geoscenario Introduction - Yellowstone Hotspot" pp. 90-93 "Geoscenario Introduction – Oil" pp. 94-97</p>	<p>FQA: Students conduct research to answer the question, "What do we need to know to tell the geological story of a place?" providing evidence and reasoning to support their claim through the eyes of an expert.</p>



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Energy: Conservation and Transfer (cont.)

Standards	FOSS Alignment	Assessment
8.P.2 Explain the environmental implications associated with the various methods of obtaining, managing, and using energy resources.		
<p>8.P.2.2. Explain the implications of the depletion of renewable and nonrenewable energy resources and the importance of conservation.</p>	<p>FOSS Second Edition Earth History Investigation 8: Geoscenarios</p>	<p>Performance Assessment: Students put into practice the concepts and tools learned throughout the course to collect and analyze geological evidence. Their goal is to tell a geological story of a specified location, selected for their geological significance: glaciers, coal, Yellowstone hotspot, and oil. Students conduct research to understand the story of the place, the processes that shape the place, and the implications for human interests. See Earth History Teacher Resources book, Notebook Masters, pages 46-49.</p>
	<p>FOSS Second Edition Earth History Investigation 8: Geoscenarios Part 1: Introduction to the Project? pp. 489-499</p>	<p>FQA: Students conduct research to answer the question, "What do we need to know to tell the geological story of a place?" providing evidence and reasoning to support their claim through the eyes of an expert.</p>
	<p>FOSS Second Edition Earth History Investigation 8: Geoscenarios Part 2: Research and Writing pp. 500-509</p>	<p>FQA: Students conduct research to answer the question, "What do we need to know to tell the geological story of a place?" providing evidence and reasoning to support their claim through the eyes of an expert.</p>
	<p>FOSS Second Edition Earth History Investigation 8: Geoscenarios Part 3: Presentations pp. 510-516</p> <p><i>FOSS Digital Resources:</i> "Geoscenarios"</p> <p><i>FOSS Science Resources:</i> "Geoscenario Introduction – Glaciers" pp. 81-85 "Geoscenario Introduction – Coal" 86-89 "Geoscenario Introduction - Yellowstone Hotspot" pp. 90-93 "Geoscenario Introduction – Oil" pp. 94-97</p>	<p>FQA: Students conduct research to answer the question, "What do we need to know to tell the geological story of a place?" providing evidence and reasoning to support their claim through the eyes of an expert.</p>

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Earth Systems, Structures and Processes

Standards	FOSS Alignment	Assessment
8.E.1 Understand the hydrosphere and the impact of humans on local systems and the effects of the hydrosphere on humans.		
8.E.1.1. Explain the structure of the hydrosphere including: <ul style="list-style-type: none"> • Water distribution on earth • Local river basins and water availability 	<i>Partially covered in FOSS Weather and Water, Investigation 9, The Water Planet (Grade Seven)</i>	
8.E.1.2. Summarize evidence that Earth's oceans are a reservoir of nutrients, minerals, dissolved gases, and life forms: <ul style="list-style-type: none"> • Estuaries • Marine ecosystems • Upwelling • Behavior of gases in the marine environment • Value and sustainability of marine resources • Deep ocean technology and understandings gained 	<i>Partially covered in FOSS Populations and Ecosystems, Investigation 9, Ecoscenarios (Grade Six)</i>	
8.E.1.3. Predict the safety and portability of water supplies in North Carolina based on physical and biological factors, including: <ul style="list-style-type: none"> • Temperature • Dissolved oxygen • pH • Nitrates and phosphates • Turbidity • Bio-indicators 		
8.E.1.4. Conclude that the good health of humans requires: <ul style="list-style-type: none"> • Monitoring of the hydrosphere • Water quality standards • Methods of water treatment • Maintaining safe water quality • Stewardship 	<i>Partially covered in FOSS Weather and Water, Investigations 9 and 10, and FOSS Science Resources - Earth the Water Planet and Climates: Past, Present, and Future (Grade Seven)</i>	

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Earth History

Standards	FOSS Alignment	Assessment
8.E.2 Understand the history of Earth and its life forms based on evidence of change recorded in fossil records and landforms.		
8.E.2.1. Infer the age of Earth and relative age of rocks and fossils from index fossils and ordering of rock layers (relative dating and radioactive dating).	FOSS Second Edition Earth History Investigation 1: Earth is a Rock	Investigations 1-2 I-Check
	FOSS Second Edition Earth History Investigation 1: Earth is a Rock Part 1: What's the Story of This Place? pp. 61-76 Part 2: Grand Canyon Rocks pp. 77-93 <i>FOSS Science Resources:</i> "Seeing Earth" pp. 2-5 "Getting to Know the Grand Canyon" pp. 6-7	FQA: Students write an answer to the focus question, "Why do there appear to be stripes on the walls of the Grand Canyon?" providing evidence and reasoning to support their claim.
	FOSS Second Edition Earth History Investigation 1: Earth is a Rock Part 3: Correlating Grand Canyon Rocks pp. 94-108 <i>FOSS Digital Resources:</i> "Grand Canyon Flyover and Index Fossil Correlation"	FQA: Students write an answer to the focus question, "How are the rocks from the two Grand Canyon sites related to one another?" providing evidence and reasoning to support their claim.
	FOSS Second Edition Earth History Investigation 3: Deposition	Investigation 3 I-Check
	FOSS Second Edition Earth History Investigation 3: Deposition Part 3: Interpreting Sedimentary Layers pp. 224-234	FQA: Students write an answer to the focus question, "What do sedimentary rock layers reveal about ancient environments?" providing evidence and reasoning to support their claim.
	FOSS Second Edition Earth History Investigation 4: Fossils and Past Environments	Investigation 4 I-Check
	FOSS Second Edition Earth History Investigation 4: Fossils and Past Environments Part 1: Fossils pp. 240-265	FQA: Students write an answer to the focus question, "How do fossils get in rocks?" providing evidence and reasoning to support their claim.

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Earth History (cont.)

Standards	FOSS Alignment	Assessment
8.E.2 Understand the history of Earth and its life forms based on evidence of change recorded in fossil records and landforms.		
<p>8.E.2.1. Infer the age of Earth and relative age of rocks and fossils from index fossils and ordering of rock layers (relative dating and radioactive dating).</p>	<p>FOSS Second Edition Earth History Investigation 4: Fossils and Past Environments Part 2: A Long Time Ago pp. 266-274 Part 3: Student Time Lines pp. 275-284 Part 4: Index Fossils pp. 285-300</p> <p><i>FOSS Science Resources:</i> "A Fossil Primer" pp. 41-43 "Rocks, Fossils, and Time" pp. 48-56 "The Geological Time Scale" pp. 14,8 "Index Fossil Key" pp. 149-150</p> <p><i>FOSS Digital Resources:</i> "Dating Rock Layers" "Fearless Planet" "Rock Column Movie Maker" "Limestone Formation" "Shale Formation" "Sandstone Formation" "Timeliner"</p>	<p>FQA: Students write an answer to the focus question, "How old are fossils?" providing evidence and reasoning to support their claim.</p>
<p>8.E.2.2. Explain the use of fossils, ice cores, composition of sedimentary rocks, faults, and igneous rock formations found in rock layers as evidence of the history of the Earth and its changing life forms.</p>	<p>FOSS Second Edition Earth History Investigation 3: Deposition</p>	<p>Investigation 3 I-Check</p>
	<p>FOSS Second Edition Earth History Investigation 3: Deposition Part 3: Interpreting Sedimentary Layers pp. 224-234</p>	<p>FQA: Students write an answer to the focus question, "What do sedimentary rock layers reveal about ancient environments?" providing evidence and reasoning to support their claim.</p>
	<p>FOSS Second Edition Earth History Investigation 4: Fossils and Past Environments</p>	<p>Investigation 4 I-Check</p>
	<p>FOSS Second Edition Earth History Investigation 4: Fossils and Past Environments Part 1: Fossils pp. 240-265</p>	<p>FQA: Students write an answer to the focus question, "How do fossils get in rocks?" providing evidence and reasoning to support their claim.</p>
	<p>FOSS Second Edition Earth History Investigation 4: Fossils and Past Environments Part 2: A Long Time Ago pp. 266-274</p> <p><i>FOSS Science Resources:</i> "A Fossil Primer" pp. 41-43 "Rocks, Fossils, and Time" pp. 48-56</p>	<p>FQA: Students write an answer to the focus question, "How old are fossils?" providing evidence and reasoning to support their claim.</p>
	<p>FOSS Second Edition Earth History Investigation 5: Igneous Rocks</p>	<p>Investigation 5 I-Check</p>

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Earth History (cont.)

Standards	FOSS Alignment	Assessment
8.E.2 Understand the history of Earth and its life forms based on evidence of change recorded in fossil records and landforms.		
<p>8.E.2.1. Infer the age of Earth and relative age of rocks and fossils from index fossils and ordering of rock layers (relative dating and radioactive dating).</p>	<p>FOSS Second Edition Earth History Investigation 5: Igneous Rocks Part 2: Salol Crystals pp. 321-332</p>	<p>FQA: Students write an answer to the focus question, "What affects crystal formation in igneous rocks?" providing evidence and reasoning to support their claim.</p>
	<p>FOSS Second Edition Earth History Investigation 5: Igneous Rocks Part 3: Types of Igneous Rocks pp. 333-342</p> <p><i>FOSS Science Resources:</i> "Minerals, Crystals, and Rocks" pp. 61-64</p> <p><i>FOSS Digital Resources:</i> "Dating Rock Layers" "Salol Crystal Formation" "Extrusive Rock Formation" "Intrusive Rock Formation" "Timeliner"</p>	<p>FQA: Students write an answer to the focus question, "What can crystal size tell us about where an igneous rock formed?" providing evidence and reasoning to support their claim.</p>

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Structures and Functions of Living Organisms

Standards	FOSS Alignment	Assessment
8.L.1 Understand the hazards caused by agents of diseases that affect living organisms.		
<p>8.L.1.1. Summarize the basic characteristics of viruses, bacteria, fungi and parasites relating to the spread, treatment and prevention of disease.</p>	<p><i>Also covered in FOSS Diversity of Life, Investigation 4, Domains and Investigation 8, Biodiversity (Grade Seven)</i></p> <p>FOSS Second Edition Human Systems Interactions Investigation 1: Systems Connections</p> <p><i>FOSS Science Resources: Disease Information</i></p>	
<p>8.L.1.2. Explain the difference between epidemic and pandemic as it relates to the spread, treatment and prevention of disease.</p>		
8.L.2 Understand how biotechnology is used to affect living organisms.		
<p>8.L.2.1. Summarize aspects of biotechnology including:</p> <ul style="list-style-type: none"> • Specific genetic information available • Careers • Economic benefits to North Carolina • Ethical issues • Implications for agriculture 	<p>FOSS Second Edition Heredity and Adaptation Investigation 3: Evolution Part 3: Genetic Technology</p>	



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Ecosystems

Standards	FOSS Alignment	Assessment
8.L.3 Understand how organisms interact with and respond to the biotic and abiotic components of their environment.		
<p>8.L.3.1. Explain how factors such as food, water, shelter and space affect populations in an ecosystem.</p>	<p><i>Covered in FOSS Populations and Ecosystems, Investigation 7, Population Size (Grade Six)</i></p>	
<p>8.L.3.2. Summarize the relationships among producers, consumers, and decomposers including the positive and negative consequences of such interactions including:</p> <ul style="list-style-type: none"> • Coexistence and cooperation • Competition (predator/prey) • Parasitism • Mutualism 	<p><i>Covered in FOSS Populations and Ecosystems, Investigation 7, Population Size (Grade Six)</i></p>	
<p>8.L.3.3. Explain how the flow of energy within food webs is interconnected with the cycling of matter (including water, nitrogen, carbon dioxide and oxygen).</p>	<p>FOSS Chemical Reactions <i>FOSS Science Resources:</i> <i>"Organic Compounds" pp. 73-77 (carbon)</i></p>	
	<p><i>Covered in FOSS Populations and Ecosystems, Investigations 5 and 6 (Grade Six)</i></p>	



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Evolution and Genetics

Standards	FOSS Alignment	Assessment
8.L.4. Understand the evolution of organisms and landforms based on evidence, theories and processes that impact the Earth over time.		
<p>8.L.4.1. Summarize the use of evidence drawn from geology, fossils, and comparative anatomy to form the basis for biological classification systems and the theory of evolution.</p>	<p>FOSS Second Edition Heredity and Adaptation Investigation 1: The History of Life on Earth Part 1: The Fossil Record Part 2: Transitions</p> <p>FOSS Second Edition Heredity and Adaptation Investigation 2: Heredity Part 1: Lines of Descent</p> <p>Investigation 3: Evolution Part 1: Adaptation Part 2: Natural Selection</p>	
	<p><i>Also covered in FOSS Diversity of Life, Investigation 4, Domains (Grade Seven)</i></p>	
<p>8.L.4.2. Explain the relationship between genetic variation and an organism’s ability to adapt to its environment.</p>	<p>FOSS Second Edition Heredity and Adaptation Investigation 2: Heredity Part 2: Inheriting Traits Part 3: Modeling Heredity Part 4: Punnett Squares</p> <p>Investigation 3: Evolution Part 1: Adaptation Part 2: Natural Selection</p>	



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Molecular Biology

Standards	FOSS Alignment	Assessment
8.L.5 Understand the composition of various substances as it relates to their ability to serve as a source of energy and building materials for growth and repair of organisms.		
8.L.5.1. Summarize how food provides the energy and the molecules required for building materials, growth and survival of all organisms (to include plants).	FOSS Second Edition Heredity and Adaptation Investigation 2: Supporting Cells	
8.L.5.2. Explain the relationship among a healthy diet, exercise, and the general health of the body (emphasis on the relationship between respiration and digestion).	FOSS Second Edition Heredity and Adaptation Investigation 2: Supporting Cells	