

# Fourth Grade Science Curriculum Map

Time frame	Unit	Standards	Evidence of understanding	Instructional Strategies	Assessment
<p style="text-align: center;"><b>Earth &amp; Space</b> (Chapters 1-2)</p>	1. Earth's Surface has specific characteristics and land forms and can be identified.	ESS1	<ul style="list-style-type: none"> <li>Identify / describe major types of landforms.</li> <li>Explain how land forms develop.</li> <li>Recognize ways that landforms differ from each other.</li> <li>Identify processes that can change the Earth's surfaces.</li> <li>Understand how Earth's surface can change due to erosion and deposition.</li> <li>Recognize that 70% of the Earth's surface is water.</li> </ul>	<p>Instruction will be provided using the following:</p> <p><i>Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments, make a landform model with clay.</i></p>	<p>Informal Assessments, Projects, teacher-made quizzes, formative assessments</p>
	2. The surface of Earth changes due to weathering	ESS2	<ul style="list-style-type: none"> <li>Understand that rocks change their size/shape or form due to water / ice movement.</li> <li>Analyze different weather patterns.</li> <li>Identify the forces that can change Earth's surface</li> <li>Differentiate between erosion and weathering.</li> <li>Understand that weathering can occur at different rates.</li> </ul>	<p>Instruction will be provided using the following:</p> <p><i>Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments, create a 3D model of a sinkhole</i></p>	<p>Informal Assessments, Projects, teacher-made quizzes, formative assessments</p>
	3. The surface of earth changes due to erosion and deposition	ESS3	<ul style="list-style-type: none"> <li>Describe the differences between weathering/erosion .</li> <li>Observe slow and rapid changes on the Earth's surface.</li> <li>Compare / Contrast the effects of gravitational forces on rock, water and soil.</li> <li>Understand how gravity plays an important role in erosion.</li> </ul>	<p>Instruction will be provided using the following:</p> <p><i>Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments, build a model to demonstrate the movement of glacial ice.</i></p>	<p>Informal Assessments, Projects, teacher-made quizzes, formative assessments</p>

# Fourth Grade Science Curriculum Map

Time frame	Unit	Standards	Evidence of understanding	Instructional Strategies	Assessment
<b>Life Science</b> (Chapters 3-4)	1. Changes in an organism's environment are sometimes beneficial to its survival and sometimes harmful.	LS1	<ul style="list-style-type: none"> <li>Identify differences between biotic/ abiotic factors</li> <li>Explain changes that occur in biotic/abiotic components of an ecosystem</li> <li>Observe the habitats of organisms within an ecosystem</li> <li>Describe the seven major ecosystems on Earth</li> <li>Recognize that organisms with similar needs compete with each other for resources</li> </ul>	Instruction will be provided using the following: <i>Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments, research a major geological event</i>	Informal Assessments, Projects, teacher-made quizzes, formative assessments
	2. Fossils can be compared to one another and to present day organisms according to their similarities and differences	LS2	<ul style="list-style-type: none"> <li>Understand how fossils records provide evidence for population of species</li> <li>Recognize ways that living things with soft body parts can become fossils</li> <li>Observe fossils and compare to living organisms</li> <li>Identify evidence that can be used to determine the existence of an organism</li> </ul>	Instruction will be provided using the following: <i>Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments, use of hand lens and microscopes to look at different organisms/ specimens</i>	Informal Assessments, Projects, teacher-made quizzes, formative assessments

# Fourth Grade Science Curriculum Map

Time frame	Unit	Standards	Evidence of understanding	Instructional Strategies	Assessment
<b>Physical Science</b> (Chapters 5-6)	1. The total amount of matter is conserved when it undergoes a change.	PS1	<ul style="list-style-type: none"> <li>Identify matter as a solid, liquid or a gas</li> <li>Observe physical properties of matter and chemical properties of matter</li> <li>Explain why volume of water decreases when exposed to air</li> <li>Recognize that the amount of matter stays constant during any change</li> </ul>	Instruction will be provided using the following: <i>Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments, with changing matter.</i>	Informal Assessments, Projects, teacher-made quizzes, formative assessments
	2. Energy can be transformed from one form to another or can be transferred from one location to another.	PS2	<ul style="list-style-type: none"> <li>Demonstrate ways energy can be used to move objects</li> <li>Compare different types of stored energy.</li> <li>Identify sources of energy and the different forms it can take.</li> <li>Compare/contrast light circuits.</li> <li>Understand the difference between working / nonworking circuits</li> <li>Describe how thermal energy moves as heat.</li> </ul>	Instruction will be provided using the following: <i>Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments- design a simple circuit that contains an on/off switch.</i>	Informal Assessments, Projects, teacher-made quizzes, formative assessments