

Fourth Grade Science Curriculum Map

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

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Time frame	Unit	Standards	Evidence of understanding	Instructional Strategies	Assessment
Life Science (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"> Identify differences between biotic/ abiotic factors Explain changes that occur in biotic/abiotic components of an ecosystem Observe the habitats of organisms within an ecosystem Describe the seven major ecosystems on Earth Recognize that organisms with similar needs compete with each other for resources 	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"> Understand how fossils records provide evidence for population of species Recognize ways that living things with soft body parts can become fossils Observe fossils and compare to living organisms Identify evidence that can be used to determine the existence of an organism 	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

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Standard	Indicator	Standard	Indicator
Physical Science (Chapters 5-6)	1. The total amount of matter is conserved when it undergoes a change.	PS1	<ul style="list-style-type: none"> Identify matter as a solid, liquid or a gas Observe physical properties of matter and chemical properties of matter Explain why volume of water decreases when exposed to air Recognize that the amount of matter stays constant during any change
	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"> Demonstrate ways energy can be used to move objects Compare different types of stored energy. Identify sources of energy and the different forms it can take. Compare/contrast light circuits. Understand the difference between working / nonworking circuits Describe how thermal energy moves as heat.

Instruction will be provided using the following:
Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments, with changing matter.

Informal Assessments, Projects, teacher-made quizzes, formative assessments

Instruction will be provided using the following:
Smart Board Lessons, Power Point Presentations, Textbook Resources, Supplemental Resources/Materials, Hands-On Experiments-design a simple circuit that contains an on/off switch.

Informal Assessments, Projects, teacher-made quizzes, formative assessments