Pacing & Curriculum Guide Grade Four Science 020050



Content:

™ Grade Four Science Course Description

™Curriculum Map

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RevisedMarch, 2021

Grade FourScience Course Description

Instructional Practices

Teaching from a range of complex text is optimized when teachers in all subject areas implement the following strategities et as as is:

1.



All standards are designed to be used by the designed to be used by the designed to be used by teachers for planning purposes. Specific questions regarding when content will actually be addressed is best answered by the individual teacher.



	Nature of Science	Integrated All Year
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Tarits and Ariinas	Plants and Animals			Pacing: 4 weeks										
Standards	Learning (Goals (I Can)	Voca	bular	у									
SC.4.L.16. Items processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.			•											
SC.4.L.16. Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.														



Learning Progression for Grade Five FSSA							
	Kindergarten	1 st Grade	2 nd Grade	3 rd Grade	4 th Grade	5 th Grade	



Living Things and the Environment	Pacing: 6 wels	S
Standards	Learning Goals (can)	Vocabulary
 SC.4.L.17. Explain that animals, including humans, cannot make their own food and that when animals eat plants or other animals, the energy stored in the food source is passed to them. SC.4.L.17. Brace the flow of energy from the Sun as it is transferred al the food chain through the producers to the consumers. SC.4.L.17. Compare the seasonal changes in Florida plants and animal those in other regions of the country. SC.4.L.17. Recognize ways plants and animals, including humans, car impact the environment. 	their environment. x I canexplain how living things depend ongon their environment. als to	



Earth's Pattern and Space	Pacing: 4 Weeks			
Standards		Learning Goal (I can)	Vocabulary	

SC.4.E.5.1



	I	Learning	Progression for Grade Five	FSSA	
Kindergarten	1st Grade	2 nd Grade	3 rd Grade	4 th Grade	5 th Grade
SC.K.E.5.2 Recognize the repeating pattern of day and night. SC.K.E.5.3 Recognize that the Sun can only be seen in the daytime. SC.K.E.5.4 Observe that sometimes the Moon can be seen at night and sometime during the day. SC.K.E.5.5 Observe that things can be big and things can be small as seen from Earth. SC.K.E.5.6 Observe that some objects are far away and some are nearby as seer from Earth.	SC.1.E.5.4 Identify the beneficial and harmful properties of theSun.	NA	SC.3.E.5.1 Explain that stars can be different; some are smaller, some are larger, and some appear brighter than others; all except the Sun are so far away that they look like points of light. SC.3.E.5.2 Identify the Sun as a star that emits energy; some of it in the form of light SC.3.E.5.3 Recognize that the Sun appears larg and bright because it is the closest star to Earth.	SC.4.E.5.1 Observe that the patterns of stars in the sky stay the same although they appear to shift across the sky htty, and different stars can be seen in different seasons. SC.4.E.5.2 Describe the changes in the observable shape of the moon over the course of about a month. SC.4.E.5.3 eRecognize that Earth revolves around the sun in a year and rotates on its axis in a 24 hour day SC.4.E.5.4 Relate that the rotation of Earth and apparent movements of the Sun, Moon, and stars are connected. SC.4.E.5.5 Investigate and report the effects of space research and exploration on the economy and culture of Florida.	gas, dust, and many stars, including any objects orbiting the stars. Identify our home galaxy as the Milky Way.



Earth's Features	Pacing: 4weeks
Standard:	Learning Goals (I can) Vocabulary

SC.4.E.6. Itdentify the three categories of rocks: igneous, (formed from molten rock) sediment



Learning Progression for Grade Five FSSA							
	Kindergarten	1 st Grade	2 nd Grade	3 rd Grade	4 th Grade	5 th Grade	

SC.K.P.8.1



Matter	Pacing: 4 weeks
Standards	LearningGoals (I can) Vocabulary
 SC.4.P.8. Measure and compare objects and materials based on their physical properties mass, shape, volume, color, hardness, textodar, taste, attraction to magnets. SC.4.P.8. Mentify properties and common uses of water in each of its states. SC.4.P.8. Explore the Law of Conservation of Mass by demonstrating that the mass of a is always the same as the sum of the masses of its parts. SC.4.P.8. Mevestigate and describe that magnets can attract magnetic materials and attract other magnets. SC.4.P.9. Identify some familiar changes in materials that result in other materials with characteristics, such as decaying animal or plant matter, burning, rusting, and cooking 	properties of matter. x I candescribe ways that whole object matter changes. whole object matter changes. act and repel ifferent Property Mass differentiate Volume states of matter solid liquid gas



		Learning Progression for	r Grade Five FSSA		
Kindergarten	1st Grade	2 nd Grade	3 rd Grade	4 th Grade	5 th Grade
SC.K.P.8.1 Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight (heavy or light) and texture.		including size, shape, color, temperature, weight, texture, sinking or floating in water, and attraction and repulsion of magnets. SC.2.P.8.2	temperatures of various samples of solids and liquids. SC.3.P.8.2 Measure and compare the mass and volume of solids and liquids. SC.3.P.8.3	SC.4.P.8.2 Identify properties and common uses of water in each of its states.	



Energy and Motion	: Motion of Objects	Pacing: 3	Weeks		
Standards		Learning Goals (I can	.)	Vocabula	ary
and may change its direction. SC.4.P.12. Provestigate and de	object in motion always changes its position . scribe that the speed of an object is determi unit of time and that objects can move at	x I candescribe how an obje	•	position motion force direction	distance speed collision simulate
PearsonElevate Science	Suggested Re	sources	Activity Ide	eas	Extensions for STEM
Topic 4 Energy and Motion Lesson 1: Energy, Speed, and Moving Objects uConnect Lab uInvestigate Lab Lesson 2: Collisions uInvestigate Lab	AIMS ClassFlow CPalms x Motions of an Object: http://www.cpalms.org/Public/Preview DiscoveryEducation Thinking Maps x Make a tree map of different speed tr USA TestPrep		x A Pumpkin Drop: r distance you are d pumpkin, weight o and speed it fell. x Use hot wheels	ropping a	x uEngineer It: Toys on the Mov (page 166)

Learning Progression for Grade Five FSSA							
Kindergarten	1 st Grade	2 nd Grade	3 rd Grade	4 th Grade	5 th Grade		
SC.K.P.13.1 Observe that a push or a pull can change the way an object is moving.	SC.1.P.13.1 Demonstrate that the way to change the motion of an object is by applying a push or a pull.	SC.2.P.13.1 Investigate the effect of applying various pushes and pulls on different objects. SC.2.P.13.4 Demonstrate that the greater the force (push or pull) applied to an					



Energy Transfer and Human Uses of Energy