



SUMTER COUNTY INTERMEDIATE SCHOOL

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1st Nine Weeks **5th Grade Science Expectations**

Standard(s): S5E1

The students will learn:

Unit 1

Earth and Space Science

S5E1. Obtain, evaluate, and communicate information to identify surface features on the Earth caused by constructive and/or destructive processes.

- a. Construct an argument supported by scientific evidence to identify surface features (examples could include deltas, sand dunes, mountains, volcanoes) as being caused by constructive and/or destructive processes (examples could include deposition, weathering, erosion, and impact of organisms).
- b. Develop simple interactive models to collect data that illustrate how changes in surface features are/were caused by constructive and/or destructive processes.
- c. Ask questions to obtain information on how technology is used to limit and/or predict the impact of constructive and destructive processes. (Clarification statement: Examples could include seismological studies, flood forecasting (GIS maps), engineering/construction methods and materials, and infrared/satellite imagery.)

Fifth Grade Science Curriculum Map

These are bundles of core ideas from the Georgia Standards of Excellence related to an anchoring phenomenon.
This document is part of a framework that includes lesson and resources

Instructional Segment	Earth and Changes Over Time	Dynamics of Classification	Cells and Microorganisms	Energy Transfer through Electricity and Magnetism	Physical and Chemical Changes
Estimated Time	8 weeks	7 weeks	8 weeks	7 weeks	6 weeks
Crosscutting Concepts	<ul style="list-style-type: none"> Structure and function Cause and effect Systems and system models 	<ul style="list-style-type: none"> Patterns Stability and change Structure and function 	<ul style="list-style-type: none"> Systems and system models Structure and function Scale, proportion, and quantity 	<ul style="list-style-type: none"> Energy and matter Systems and system models 	<ul style="list-style-type: none"> Cause and effect Energy and matter
Anchoring Phenomenon	Year-Long Phenomenon: Evidence of Change				
	Impact of Earth's processes on landforms (Yellowstone, Providence Canyon, island formation)	Comparison pictures: living things look alike but are classified differently	<u>Decomposition of multicelled organisms by single-celled organisms</u>	<u>Van de Graaff</u>	<u>Elephant toothpaste</u>
Core Ideas	<ul style="list-style-type: none"> Geologic processes Formation and/or destruction of landforms 	<ul style="list-style-type: none"> Grouping animals and plants by their internal and/or external structure Inherited traits Acquired traits 	<ul style="list-style-type: none"> Magnification tools are needed to observe very small things Plant cell structure and function Animal cell structure and function Microorganisms can be helpful or harmful 	<ul style="list-style-type: none"> Static electricity Current electricity (human-harnessed) Energy transfer Simple electric circuit Magnetic field and force Insulators and conductors of electricity 	<ul style="list-style-type: none"> Physical changes Chemical changes Phases/States of water are related to temperature changes Energy transfer
Science and Engineering Practices	Obtain, Evaluate, and Communicate Information				
	<ul style="list-style-type: none"> Engaging in argument from evidence Developing and using models Asking questions and defining problems 	<ul style="list-style-type: none"> Developing and using models Asking questions and defining problems 	<ul style="list-style-type: none"> Developing and using models Constructing explanations Engaging in argument from evidence 	<ul style="list-style-type: none"> Planning and carrying out investigations Engaging in argument from evidence 	<ul style="list-style-type: none"> Planning and carrying out investigations Engaging in argument from evidence
GSE	SSE1. a, b, c	SSL1. a, b; SSL2. a, b	SSL3. a, b, c; SSL4. a, b	SSP2. a, b, c; SSP3. a, b	SSP1. a, b, c

5th Grade Science 1st Nine Weeks Pacing Guide Calendar

Science for August 2020						
◀ July						September ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17 1. Teacher and Student Introductions 2. Mask Activity	18 1. Share Student videos 2. Team Building 3. DIY Craft Challenge	19	20	21	22
23 Weekly Focus: Explain interactions between steps in a process	24 1. Review Expectations 2. Introduce Flip grid 3. Teacher version of Scavenger hunt	25 1. Students complete their own 3 item scavenger hunt 2. Load it to flipgrid	26	27	28	29
30 Weekly Focus: Use grade-appropriate vocabulary correctly	31 (S5E1 a) 1. Weathering and Erosion 2. Soil Experiment					

5th Grade Science 1st Nine Weeks Pacing Guide Calendar

Science For September 2020						
◀ August						October ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 1. Experiment 2. Student Scavenger Hunt	2	3	4	5
6 Weekly Focus: Explain cause-and-effect relationships ELAGSE4RI3	7 Labor Day	8 (S5E1a) 1. Where did it go? 2. Providence Canyon Virtual Field Trip 3. Erosion Scavenger hunt	9	10	11	12
13 Weekly Focus: Draw a line of symmetry MGSE4.G.3	14 (S5E1b) 1. Pic talk 2. Constructive/destructive forces	15 1. Make an example of constructive/destructive forces. 2. Explain why.	16 Progress Reports	17	18	19
20 Weekly Focus: Solve problems: area / perimeter rectangle formula MGSE4.MD.3	21 (S5E1b) 1. Landforms video 2. Landform discussion	22 1. Make your own landform and present.	23	24 Early Release/ Parent Teacher Conferences	25	26
27 Weekly Focus: Explain an informational text's explicit meaning ELAGSE4RI1	28 (S5E1c) 1. Present task to the students that will be due 9/12 2. Weather disasters for forces as news anchors	29 1. Students make a news report over one of the forces for flip grid	30			

5th Grade Science 1st Nine Weeks Pacing Guide Calendar

Science for October 2020						
◀ September						November ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4 Weekly Focus: Use letter sounds to read words in isolation ELAGSE5RF3A	5 (S5E1c) 1. Technology used 2. Google Earth	6 1. Location of choice and how was it formed	7	8	9	10
11 Weekly Focus: Explain interactions between steps in a process ELAGSE5RI3	12 (S5E1) Students present their task	13 Students present their task	14	15 Early Release/ Professional Learning	16	17
18	19 End of 1 st 9 weeks	20	21 Report cards	22	23	24
25	26	27	28	29	30	31