Fifth Grade NGSS/Benchmark Alignment							
Life Science							
5-LifeScience1 (5-LS1) From Molecules to Organisms: Structures and Processes 5-LifeScience2 (5-LS-2) Ecosystems: Interactions, Energy, and Dynamics		Cultivating Natural Resources					
	NGSS Standard			Benchmark			
5-LS1-1 Support an air from air and water.	gument that plants get the materials they	need for growth chiefly	Benchmark Essential Question How do we decide which resources we should develop?				
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices Disciplinary Core Ideas				
Engaging in Argument from Evidence Construct an argument with evidence, data, and/or a model. (5- LS1-1)	Organization for Matter and Energy Flow in Organisms Plants acquire their material for growth chiefly from air and water. (5-LS1-1)	Energy and Matter Matter is transported into, out of, and within systems. (5-LS1-1)	<u>NOT</u> <u>ADDRESSED</u>	 Whole group text: The Structure of the Corn Plant pp. 4-5 (Texts for Close Reading) The Past and Future of a Crop pp. 6-9 (Texts for Close Reading) A Short History of a Special Plant pp. 12 19 (Texts for Close Reading) The Peanut Man pp. 50-51 (Read Aloud Handbook) Small group text: Cells Growing a Kitchen Garden Plant Atlas Plants We Use What Makes a Plant a Plant? 	<u>NOT</u> <u>ADDRESSED</u>		

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Fifth Grade Life Science (cont'd)							
The information be standards can be fou	The information below cites correlations to FOSS CA to address what is missing from the standard(s) listed in Benchmark. The complete Fifth grade NGSS standards can be found at: https://tinyurl.com/5thGradeCANGSS						
		FOSS CA: Living Sys	<i>tems</i> : Investigat	ion 3			
Science and Engineering PracticesDisciplinaEngaging in Argument from EvidenceOrganization for Mat OrganismsInvestigation 3 Part 3 Testing CerealsInvestigation 3 Part 3 Science Resource Br Food"		Disciplinary Core Ideas rganization for Matter and Energy Flow in rganisms vestigation 3 Part 1 cience Resource Book (Step 4): "Making bod"		Crosscutting Concepts Energy and Matter Investigation 3 Part 2 Focus Question (After Step 17): How animal cells break down food (sugars) t	/ do plant and o get energy?		
5-LS2-1 Develop a model to describe the movement of matter among plants, animals decomposers and the environment							
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices		Disciplinary Core Ideas Crosso Conc		
Developing and Using Models Develop a model to describe phenomena. (5-LS2-1)	Interdependent Relationships in Ecosystems The food of almost any kind of animal can be traced back to plants. Organisms are related in food webs in which some animals eat plants for food and other animals eat the animals that eat plants. Some organisms, such as fungi and bacteria, break down dead organisms (both plants or plants parts and animals) and therefore operate as "decomposers." Decomposition eventually restores (recycles) some materials back to the soil. (5-LS2-1)	Systems and System Models A system can be described in terms of its components and their interactions. (5-LS2-1)	<u>NOT</u> <u>ADDRESSED</u>	 Whole The for Clo A SF (Texts) The (Texts) Agri Diffe Agri Diffe Amber (Texts) Amber (Texts)<	group text: Past and Future of a Crop pp. 6-9 (Texts base Reading) nort History of a Special Plant pp. 12 19 for Close Reading) Science of Growing Food pp. 24-29 for Close Reading) culture pp. 42-45 (Read Aloud Handbook) erent Ways pp. 46-47 (Read Aloud Handbook) Peanut Man pp. 50-51 (Read Aloud Handbook) per Waves of Grain pp. 52-53 (Read Aloud book) group text: on Plant to Cotton Shirt wing a Kitchen Garden at Atlas at Genetics hts We Use	<u>NOT</u> ADDRESSED	

Fifth Grade Life Science (cont'd)							
The information below cites correlations to FOSS CA to standards can be found at: <u>https://tinyurl.com/5thGradeCA</u>	The information below cites correlations to FOSS CA to address what is missing from the standard(s) listed in Benchmark. The complete Fifth grade NGSS standards can be found at: https://tinyurl.com/5thGradeCANGSS						
	FOSS CA: Living Sys	tems: Investigation 3					
Science and Engineering Practices	Disciplinary Core Ideas		Crosscutting Concepts				
Developing and Using Models	Interdependent Relationships in Ecosystems		Systems and System Models				
Investigation 3 Part 2 Focus Question (Step 12)	Investigation 3 Part 2 Science Notebook S	2 heet. No. 10	Investigation 3 Part 3 Focus Question (Step 12)				
 Explain how your cells get energy from the sun using examples? 	"Response Sheet – Sugar and Cells" (Step 21)		 What happens to sugar when it is used in cells? 				
ETS 1.B - Devloping Possible Solutions Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people		<u>NOT ADDRESSED</u> Benchmark does not provide students opportunities to design solutions for a problem within this standard band					

Fifth Grade NGSS/Benchmark Alignment					
Earth and Space Sciences					
5- Earth and Space Sciences1 (5-ESS1) Earth's Place in the Universe 5- Earth and Space Sciences2 (5-ESS2) Earth's Systems 5- Earth and Space Sciences3 (5-ESS3) Earth and Human Activity		Water Fiction Sectored Fiction Sectored Fiction Benchmark Unit 8 Earth and Space Sciences: Water: Fact and Fiction			
NGSS Standard		Benchmark			
5-ESS1-1. Support an argument that differences in the sun compared to other stars is due to their relative dist	apparent brightness of the ances from Earth.	Benchmark Essential Question: What does water mean to people and the societies they live in?			
The information below cites correlations to FOSS C NGSS standards can be found at: <u>https://tinyurl.com/5t</u>	CA to address what is miss thGradeCANGSS	sing from the standard(s) I	isted in Benchmark. The complete fourth grade		
	FOSS CA: Water Pla	anet: Investigation 1			
Science and Engineering Practices Engaging in Argument from Evidence Support an argument from evidence, data, or a model. (5-ESS1-1) Investigation 1 Part 2 Focus Question (After Step 6): Why do planets go around the Sun in circular orbits?	Disciplinary The Universe and its Sta The sun is a star that appe than other stars because it greatly in their distance fro Investigation 1 "Solar System"	<u>y Core Ideas</u> rs ears larger and brighter t is closer. Stars range im Earth. (5-ESS1-1)	Crosscutting Concepts Scale, Proportion, and Quantity Natural objects exist from the very small to the immensely large. (5-ESS1-1) Investigation 1 Part 1 Science Notebook Sheet, No. 1, Step 11 "Solar System Data"		

	Fifth Grade Earth and S	Space Sciences (cont'd)	
NGSS Standard		Benchmark Unit 8 Ea	arth and Space Sciences: Water: Fact and Fiction
5-ESS1-2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.		NOT ADDRESSED	
The information below cites correlations to FOSS (NGSS standards can be found at: <u>https://tinyurl.com/5</u>	CA to address what is miss thGradeCANGSS	ing from the standard(s) I	isted in Benchmark. The complete fourth grade
	FOSS CA: Water Planet	: Investigations 1 and 2	
Science and Engineering Practices	Disciplinary	v Core Ideas	Crosscutting Concepts
Analyzing and Interpreting Data Represent data in graphical displays to reveal patterns that indicate relationships. (5-ESS1-2)	Earth and Solar System The orbits of Earth around around Earth, together with about an axis between its I cause observable patterns night; daily changes in the shadows; and different pos and stars at different times year. (5-ESS1-2)	the sun and of the moon in the rotation of Earth North and South poles, . These include day and length and direction of sitions of the sun, moon, of the day, month, and	Patterns Similarities and differences in patterns can be used to sort, classify, communicate, and analyze simple rates of change for natural phenomena. (5-ESS1-2)
Investigation 2 Part 1 Science Notebook Sheet, No. 4, Step 13 "Swingers Picture Graph"	Investigation 1 Part 1 Science Resource Book Solar System"	(Step 19) : "Tour of the	Investigation 1 Part 2 Focus Question: Why do planets go around the Sun in circular orbits?



Fifth Grade Earth and Space Sciences (cont'd)						
5-ESS2-1. Develop a biosphere, hydrosph	a model using an example to describe v ere, and/or atmosphere interact.	vays the geosphere,	Benchmark Unit 8 Earth and Space Sciences: Water: Fact and Fiction			
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices		Disciplinary Core Ideas	Crosscutting Concepts
Develop a model to describe phenomena. (5-ESS2-1)	Earth Materials and Systems Earth's major systems are the geosphere (solid and molten rock, soil, and sediments), the hydrosphere (water and ice), the atmosphere (air), and the biosphere (living things, including humans). These systems interact in multiple ways to affect Earth's surface materials and processes. The ocean supports a variety of ecosystems and organisms, shapes landforms, and influences climate. Winds and clouds in the atmosphere interact with the landforms to determine patterns of weather. (5-ESS2-1)	Systems and System Models A system can be described in terms of its components and their interactions. (5-ESS2-1)	<u>NOT</u> <u>ADDRESSED</u>	 Whole Group Text: Water: The Liquid of Life pp. 120-123 (Read Aloud Handbook) Questions and Answers About the Ocean pp. 22-29 9 (Texts for Close Reading) The Great Barrier Reef p. 30 (Texts for Close Reading) Small Group Text: Catastrophic Storms Earth's Water Cycle Severe Weather Tsunamis Weather on Earth Weatherworks 		<u>NOT</u> ADDRESSED
The information be NGSS standards car	low cites correlations to FOSS CA to the found at: <u>https://tinyurl.com/5thGra</u>	address what is miss deCANGSS	ing from the sta	ndard(s)	listed in Benchmark. The complete for	urth grade
	FC	OSS CA: Water Planet	Investigations	4 and 5		
Science a	Ind Engineering Practices	Disciplina	ry Core Ideas		Crosscutting Concepts	6
Developing and Using Models Earth Materials and		Earth Materials and	Systems		Systems and System Models	
Investigation 4 Part Science Notebook S "Response Sheet - H	: <u>2</u> heet, No. 18 leating Earth", Step 17	Investigation 5 Part Science Resource B Weather"	Investigation 4 Part 1 and 2 ook (Step 9): "Summary "Heating Earth Materials" "Convection"			



Fifth Grade Earth and Space Sciences (cont'd)						
5-ESS2-2. Describe and g water in various reservoirs Earth.	raph the amounts and perce to provide evidence about th	ntages of water and fresh ne distribution of water on	Benchmark Unit 8 Earth and Space Sciences: Water: Fact and Fiction			
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices	Science and Engineering Practices		
Using Mathematics and Computational Thinking Describe and graph quantities such as area and volume to address scientific questions. (5-ESS2-2)	The Roles of Water in Earth's Surface Processes Nearly all of Earth's available water is in the ocean. Most fresh water is in glaciers or underground; only a tiny fraction is in streams, lakes, wetlands, and the atmosphere. (5-ESS2-2)	Scale, Proportion, and Quantity Standard units are used to measure and describe physical quantities such as weight, and volume. (5-ESS2-2)	<u>NOT</u> ADDRESSED	 Whole Group Text: Water-Wise Landscaper pp. 6-9 (Texts for Close Reading) Questions and Answers About the Ocean pp. 22-29 9 (Texts for Close Reading) Water: The Liquid of Life pp. 120-123 (Read Aloud Handbook) Los Angeles: The City that Water Built pp. 124-125 (Read Aloud Handbook) Encounters with Encantados pp. 126-129 (Read Aloud Handbook) Great Flood pp. 130-131 (Read Aloud Handbook) Small Group Text: Antarctica: A Year of Science Catastrophic Storms Earth's Water Cycle Tsunamis Unit Opener Video: Water Fact or Fiction Content Across Disciplines Inquiry Projects (ADDITIONAL RESOURCES tab): Interview a Body of Water, Create Statistical Portraits, Draw an Annotated Map 	<u>NOT</u> ADDRESSED	

Fifth Grade Earth and Space Sciences (cont'd) The information below cites correlations to FOSS CA to address what is missing from the standard(s) listed in Benchmark. The complete fourth grade NGSS standards can be found at: https://tinyurl.com/5thGradeCANGSS						
		FOSS CA: Water Pla	net: Investigation	n 5		
Science and Eng Using Mathematics and Con Investigation 5 Part 4 Focus Question (Step 6): Mealtime	Disciplinary Core Ideas The Roles of Water in Earth's Surface Processes Investigation 5 Part 1 Science Resource Book (Step 6): "Where is the Earth's Water?"		Crosscutting Concepts Scale, Proportion, and Quantity Investigation 5 Part 1 Water Cycle (Steps 1-18)			
5-ESS3-1. Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment. Benchmark Unit 8 Earth and Space Scient Water: Fact and Fiction			nark Unit 8 Earth and Space Sciences: Water: Fact and Fiction			
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices		Crosscutting Concepts	
Obtaining, Evaluating, and Communicating Information Obtain and combine information from books and/or other reliable media to explain phenomena or solutions to a design problem. (5-ESS3-1)	Human Impacts on Earth's System Human activities in agriculture, industry, and everyday life have had major effects on the land, vegetation, streams, ocean, air, and even outer space. But individuals and communities are doing things to help protect Earth's resources and environments. (5-ESS3-1)	Systems and System Models A system can be described in terms of its components and their interactions. (5-ESS3-1)	<u>NOT</u> <u>ADDRESSED</u>	Whole C • Wat Readi • Los 124- • Encr (Read • Great • Wat 131 Small G • Seve • Tsur • Weat • Weat • Content (ADDITIN Annotate	Group Text: er-Wise Landscaper pp. 6-9 (Texts for Close ng) Angeles: The City that Water Built pp. -125 (Read Aloud Handbook) Dounters with Encantados pp. 126-129 Aloud Handbook) at Flood pp. 130-131 (Read Aloud Handbook) er Served with Pressure pp. 132-133 (Read Aloud Handbook) roup Text: ere Weather namis ather on Earth atherworks Across Disciplines Inquiry Projects ONAL RESOURCES tab): Draw an ed Map	<u>NOT</u> <u>ADDRESSED</u>



Fifth Grade Earth and Space Sciences (cont'd)							
The information below cites correlations to FOSS CA to address what is missing from the standard(s) listed in Benchmark. The complete fourth grade NGSS standards can be found at: https://tinyurl.com/5thGradeCANGSS							
FOSS CA: Water Planet: Investigations 5							
Science and Engineering Practices	Disciplinary Core Ideas Crosscutting Concepts						
Obtaining, Evaluating, and Communicating Information	Human Impacts on Earth's System	Systems and System Models					
 Investigation 5 Part 3 Focus Question (Step 5): What weather variables do meteorologists measure when they are preparing to make a weather forecast? What causes wind? 	Investigation 5 Part 1 Science Resource Book (Step 21): "Earth's Water"	Investigation 5 Part 1 Focus Question (Step 20) Use examples to describe how is water recycled on earth?					

	Fifth Grade NGSS/Benchmark Alignment					
	Physical Science					
5-Physical Science1 (5-PS1) Matter and its Interactions 5-Physical Science2 (5-PS2) Motion and Stability: Forces and Interactions 5-Physical Science3 (5-PS3) Energy		Transforming Matter Matter Senchmark Unit 10 Physical Science: Transforming Matter				
NGSS Standard		Benchmark				
5-PS1-1. Develop a to be seen.	model to describe that matter is made of p	particles too small	Benchmark Essential Question: Why do we measure and describe the world?			
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	
Developing and Using Models Develop a model to describe phenomena. (5-PS1-1)	Structure and Properties of Matter Matter of any type can be subdivided into particles that are too small to see, but even then the matter still exists and can be detected by other means. A model showing that gases are made from matter particles that are too small to see and are moving freely around in space can explain many observations, including: the inflation and shape of a balloon, and the effects of air on larger particles or objects. (5-PS1-1)	Scale, Proportion, and Quantity Natural objects exist from the very small to the immensely large. (5-PS1-1)	<u>NOT</u> <u>ADDRESSED</u>	 Whole Group Text: John Dalton: Father of Atomic Theory pp. 4- 5 (Texts for Close Reading) Matter is Everywhere! pp. 6-9 (Texts for Close Reading) Investigate: Changes in Matter pp. 12-19 (Texts for Close Reading) Nylon pp. 156-159 (Read Aloud Handbook) Small Group Text: Carbon Chemistry Diamonds Foundations of Matter Interactions of Matter The Nature of Matter 	<u>NOT</u> <u>ADDRESSED</u>	

Fifth Grade Physical Science (cont'd) The information below cites correlations to FOSS CA to address what is missing from the standard(s) listed in Benchmark. The complete Fifth grade NGSS standards can be found at: https://tinyurl.com/5thGradeCANGSS						
		FOSS CA: Mixtures and S	Solutions: Invest	igation 3		
Science and Engi	neering Practices	Disciplinary	Core Ideas		Crosscutting Concepts	5
Developing and Using Mo	odels	Structure and Properties	of Matter		Scale, Proportion, and Quantity	
Investigation 3 Part 3Investigation 3 Part 1Focus Question (After Step 10):Science Resource BooWhat happens to the atoms in the reactants during a chemical reaction?Substances Change"			(Step 23): "When Investigation 3 Part 2 Focus Question (Step 15): What forms can reaction products take? How can you identify the products of a reaction?			ake? of a reaction?
5-PS1-2 . Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.			Benchmark Unit 10 Physical Science Transforming Matter			
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices		Disciplinary Core Ideas	Crosscutting Concepts
Using Mathematics and Computational Thinking Describe and graph quantities such as area and volume to address scientific questions. (5-PS1-2)	Chemical Reactions The amount (weight) of matter is conserved when it changes form, even in transitions in which it seems to vanish. (5-PS1-2)	Scale, Proportion, and Quantity Standard units are used to measure and describe physical quantities such as weight, time, temperature, and volume. (5-PS1-2)	<u>NOT</u> <u>ADDRESSED</u>	Whole C • Matt Readi • Inve (Texts Small G • Carl • Diar • Fou • Inter • The Unit Op	Group Text: ter is Everywhere! pp. 6-9 (Texts for Close ng) stigate: Changes in Matter pp. 12-19 for Close Reading) froup Text: bon Chemistry monds indations of Matter ractions of Matter Nature of Matter ener Video: Transforming Matter	<u>NOT</u> <u>ADDRESSED</u>



Fifth Grade Physical Science (cont'd) The information below cites correlations to FOSS CA to address what is missing from the standard(s) listed in Benchmark. The complete Fifth grade NGSS standards can be found at: https://tinyurl.com/5thGradeCANGSS						
		FOSS CA: Mixtures and S	Solutions: Invest	igation 3		
Science and Engi	neering Practices	Disciplinary	Core Ideas		Crosscutting Concepts	\$
Developing and Using Mo	odels	Structure and Properties	of Matter		Scale, Proportion, and Quantity	
Investigation 3 Part 3Investigation 3 Part 1Focus Question (After Step 10):Science Resource BookWhat happens to the atoms in the reactants during a chemical reaction?Substances Change"			(Step 23): "When Investigation 3 Part 2 Focus Question (Step 15): • What forms can reaction products take? • How can you identify the products of a reaction?			ake? of a reaction?
5-PS1-2 . Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.			Benchmark Unit 10 Physical Science Transforming Matter			
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices	ind Disciplinary Core Ideas Cross		
Using Mathematics and Computational Thinking Describe and graph quantities such as area and volume to address scientific questions. (5-PS1-2)	Chemical Reactions The amount (weight) of matter is conserved when it changes form, even in transitions in which it seems to vanish. (5-PS1-2)	Scale, Proportion, and Quantity Standard units are used to measure and describe physical quantities such as weight, time, temperature, and volume. (5-PS1-2)	<u>NOT</u> <u>ADDRESSED</u>	Whole C • Matt Readi • Inve (Texts Small G • Carl • Diar • Fou • Intel • The Unit Op	Group Text: ter is Everywhere! pp. 6-9 (Texts for Close ng) stigate: Changes in Matter pp. 12-19 for Close Reading) roup Text: bon Chemistry nonds ndations of Matter ractions of Matter Nature of Matter ener Video: Transforming Matter	<u>NOT</u> <u>ADDRESSED</u>

Fifth Grade Physical Science (cont'd)						
The information below cites correlations to FOSS CA to address what is missing from the standard(s) listed in Benchmark. The complete Fifth grade NGSS standards can be found at: https://tinyurl.com/5thGradeCANGSS						
FOSS CA: Mixtures and Solutions: Investigations 1 and 2						
Science and Engineering Practices	Disciplinary Core Ideas		Crosscutting Concepts			
Using Mathematics and Computational Thinking	Chemical Reactions		Scale, Proportion, and Quantity			
Investigation 2 Part 1 Science Notebook Sheet, No. 7 "Saturating a Solution" Step 14	Investigation 1 Part 2 Science Notebook Sheet, No. 3 "Making a Solution" Step 6		Investigation 2 Part 2 Focus Question (Step 7): How can you determine the amount of Epsom salts present in a saturated volume of water?			
NGSS Standard		Benchmark Unit 10 Physical Science: Transforming Matter				
5-PS1-3. Make observations and measurements to identify materials based on their properties.		NOT ADDRESSED				
The information below cites correlations to FOSS CA to address what is missing from the standard(s) listed in Benchmark. The complete Fifth grade NGSS standards can be found at: https://tinyurl.com/5thGradeCANGSS						
FOSS CA: Mixtures and Solutions: Investigations 1 and 2						
Science and Engineering Practices	Disciplinary Core Ideas		Crosscutting Concepts			
Constructing Explanations and Designing Solutions	Conservation of Energy and Energy Transfer		Energy and Matter			
Planning and Carrying Out an Investigation Make observations and measurements to produce data to serve as a basis for evidence.	Structure and Properties of Matter Measurements of a variety of properties can be used to identify materials.		Scale, Proportion, and Quantity Standard units are used to measure and describe physical quantities such as weight, time, temperature, and volume. (5-PS1-3)			
Investigation 1 Part 3 Focus Question (Step 2): How can you design an efficient method to separate a mixture of three solid materials?	Investigation 2 Part 3 Science Notebook Sheet, No. 9 "Substance Data Sheet" Step 8		Investigation 2 Part 2 Focus Question (Step 7): How can you determine the amount of Epsom salts present in a saturated volume of water?			

Fifth Grade Physical Science (cont'd)						
5-PS1-4. Conduct an investigation to determine whether the mixing of two or more substances results in new substances.		Benchmark Unit 10 Physical Science Transforming Matter				
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices		Disciplinary Core Ideas	Crosscutting Concepts
Planning and Carrying Out an Investigation Make observations and measurements to produce data to serve as a basis for evidence. (5-PS1-4)	Chemical Reactions When two or more different substances are mixed, a new substance with different properties may be formed. (5-PS1-4)	Cause and Effect Cause and effect relationships are routinely identified, tested, and used to explain change. (5-PS1-4)	NOT ADDRESSED Whole Group Text: NO • John Dalton: Father of Atomic Theory pp. 4-5 (Texts for Close Reading) • Investigate: Changes in Matter pp. 12- 19 (Texts for Close Reading) • Nylon pp. 156-159 (Read Aloud Handbook) • Changes in the Kitchen p. 161 (Read Aloud Handbook) • Changes in the Kitchen p. 161 (Read Aloud Handbook) • Small Group Text: • Carbon Chemistry • Interactions of Matter • The Nature of Matter			NOT ADDRESSED
standards can be found at: https://tinyurl.com/5thGradeCANGSS						
FOSS CA: Mixtures and Solutions: Investigation 3						
Science and Engineering Practices Disciplinary		Core Ideas		Crosscutting Concepts		
Planning and Carrying Out an Investigation Chemical Reactions				Cause and Effect		
Investigation 3 Part 4Focus Question (After Step 13):What observations give evidence that a chemical reaction has happened?Investigation 3 Part 1Science Resource Book Substances Change"		(Step 23): "When		Investigation 3 Part 1 Focus Question (After Step 17): If you mix two different solid substances with water, will you end up with a solution?		

Fifth Grade Physical Science (cont'd)					
5-PS2-1. Support an argument that the gravitational force exerted by Earth on objects is directed down.		Benchmark Unit 10 Physical Science Transforming Matter			
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices	Disciplinary Core Ideas Crosscutti Concept	
Engaging in Argument from Evidence Support an argument from evidence, data, or a model. (5-PS2-1) The information below ci	Types of Interactions The gravitational force of Earth acting on an object near Earth's surface pulls that object toward the planet's center. (5-PS2-1) tes correlations to FOSS CA	Cause and Effect Cause and effect relationships are routinely identified and used to explain change. (5-PS2-1)	<u>NOT</u> <u>ADDRESSED</u> sing from the star	Small Group Text: NOT • Forces and Motion in Sports ADDRESS • Forces and Motion on Earth Forces on Earth • Isaac Newton and his Laws of Motion Isaac Newton: The World in Motion • The Nature of Motion The Complete Fifth grade NG	
FOSS CA: Water Planet: Investigation 1					
Science and Engineering Practices Disciplinar		y Core Ideas	Crosscutting Concepts		
Engaging in Argument from Evidence Types		Types of Interactions		Cause and Effect	
Investigation 1 Part 2InvestigationFocus Question (After Step 6):ScienceWhy do planets go around the Sun in circular orbits?Doe		Investigation 1 Part 2 Science Resource Book (Step 5): "Why Doesn't the Earth Fly Off into Space"		Investigation 1 Part 2 Focus Question: Why do planets go around the Sun in circular orbits	

Fifth Grade Physical Science (cont'd)						
5-PS3-1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.		Benchmark Unit 10 Physical Science Transforming Matter				
Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts	Science and Engineering Practices		Disciplinary Core Ideas	Crosscutting Concepts
Developing and Using Models Use models to describe phenomena. (5-PS3-1)	Energy in Chemical Processes and Everyday Life The energy released [from] food was once energy from the sun that was captured by plants in the chemical process that forms plant matter (from air and water). (5-PS3-1)	Energy and Matter Energy can be transferred in various ways and between objects. (5-PS3-1)	<u>NOT</u> <u>ADDRESSED</u>	Whole (• M 2: Small G • C	Group Text: arie M. Daly: Biochemist Pioneer pp. 2-29 (Texts for Close Reading) Froup Text: arbon Chemistry	<u>NOT</u> <u>ADDRESSED</u>
standards can be found at: https://tinyurl.com/5thGradeCANGSS						
FOSS CA: Living Systems: Investigation 3						
Science and Eng	ineering Practices	Disciplinary	/ Core Ideas		Crosscutting Concepts	
Developing and Using Models Energy in Chemical Pro		ocesses and Everyday		Energy and Matter		
Investigation 3 Part 1 After Step 9: Have them draw a model of how they think photosynthesis happens. Have them revise it after Step 13.		k (Step 12):		Investigation 3 Part 1 Step 1: Have them draw a model of a food chain and indicate how the energy is flowing.		