

Lab-Aids Correlations for

New York State P-12 Science Learning Standards

LIFE SCIENCE

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This document is intended to show how the *Science and Global Issues: Biology* materials align with the New York State P-12 Science Learning Standards for Life Science.

ABOUT OUR PROGRAMS

Lab-Aids has maintained its home offices and operations in Ronkonkoma, NY, since 1963. We publish over 200 kits and core curriculum programs to support science teaching and learning, grades 6-12. All core curricula support an inquiry-driven pedagogy, with support for literacy skill development and with assessment programs that clearly show what students know and are able to do as a result of program use. All programs have extensive support for technology and feature comprehensive teacher support. For more information, please visit www.lab-aids.com/sgi

SEPUP

Materials from the Science Education for Public Understanding Program (SEPUP) are developed at the Lawrence Hall of Science, at the University of California, Berkeley, and distributed nationally by LAB-AIDS, Inc. Since 1987, development of SEPUP materials has been supported by grants from the National Science Foundation and other public and private sources. SEPUP programs include student books, equipment kits, teacher materials, and online digital content, and are available as full year courses, or separately, as units.

ABOUT THE LAB-AIDS CITATIONS

Citations included in the correlation document are as follows:

* indicates where Performance Expectation is assessed Unit title, Activity Number Cells: 2, 3, 4, 5, 6*, 7*, 8

NGSS Performance Expectations HS-LS1-1

Disciplinary Core Ideas LS1.A

Science and Engineering Practices Constructing Explanations and Designing Solutions

Crosscutting Concepts Scale, Proportion, and Quantity

Common Core ELA SL.11-12.5

Common Core Math MP.4

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math				
HS. Structure and Function									
HS-LS1-1: Construct an	Cells: 6	LS1.A	Constructing Explanations and Designing Solutions Developing and Using Models	Scale, Proportion, and Quantity Structure and Function Systems and System Models	ELA/Literacy: SL.11-12.5 WHST.9-12.9				
explanation based on evidence for how the structure of DNA determines the structure of proteins which carry out the essential functions of life through systems of specialized cells.	Genetics: 2, 7, 8, 9, 10*, 15	LS1.A LS1.B LS4.B LS4.C	Asking Questions and Defining Problems Constructing Explanations and Designing Solutions Developing and Using Models Obtaining, Evaluating, and Communicating Information	Cause and Effect Patterns Scale, Proportion, and Quantity Structure and Function Systems and System Models	ELA/Literacy: WHST.9-12.2 WHST.9-12.9 Mathematics: MP.4				
HS-LS1-2: Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.	Cells: 2, 3, 4, 5, 6*, 7*, 8	LS1.A	Analyzing and Interpreting Data Connections to Nature of Science Constructing Explanations and Designing Solutions	Cause and Effect Scale, Proportion, and Quantity Stability and Change Structure and Function	ELA/Literacy: RST.9-10.1 RST.9-10.7 RST.11-12.3 RST.11-12.9 SL.11-12.5 WHST.9-12.9				

Performance Expectation	SGI Biology: Unit and Activity Number.	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math				
HS. Structure and Function									
HS-LS1-3: Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.	Cells: 1, 2, 3, 4, 5, 7, 8, 9	LS1.A LS1.C ETS1.B	Developing and Using Models Planning and Carrying Out Investigations Analyzing and Interpreting Data Asking Questions and Defining Problems Connections to Nature of Science Constructing Explanations and Designing Solutions Developing and Using Models Planning and Carrying Out Investigations	Systems and System Models Cause and Effect Energy and Matter Patterns Scale, Proportion, and Quantity Stability and Change Systems and System Models	ELA/Literacy: RST.9-10.1 RST.9-10.7 RST.11-12.3 RST.11-12.7 RST.11-12.9				
	HS. Matter and	d Energy in Org	ganisms and Ecosysto	1					
HS-LS1-5: Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy.	Cells: 11*, 12, 13, 15	LS1.C LS1.B	Connections to Nature of Science Constructing Explanations and Designing Solutions Developing and Using Models	Cause and Effect Connections to Nature of Science Energy and Matter Patterns	ELA/Literacy: RST.9-10.1 RST.11-12.3 RST.11-12.7 WHST.9-12.9 Mathematics: MP.2				

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math				
HS. Structure and Function									
			Planning and Carrying Out Investigations Using Mathematics and Computational Thinking Analyzing and Interpreting Data Connections to	Scale, Proportion, and Quantity Stability and Change					
HS-LS1-6: Construct and revise an explanation based on evidence for how carbon, hydrogen, and oxygen from sugar molecules may combine with other elements to form amino acids and/or other large carbon-based molecules.	Cells: 9, 10, 11, 13, 14, 15, 16*	LS1.A LS1.C LS2.B ETS1.B	Connections to Nature of Science Constructing Explanations and Designing Solutions Developing and Using Models Engaging in Argument from Evidence Planning and Conducting Investigations Using Mathematics and Computational Thinking	Effect Connections to Nature of Science Energy and Matter Patterns Scale, Proportion, and Quantity Stability and Change Systems and System Models	ELA/Literacy: RST.9-10.1 RST.11-12.3 RST.11-12.7 WHST.9-12.2 WHST.9-12.9 Mathematics: MP.2				
HS-LS1-7: Use a model to illustrate that cellular respiration is a chemical process whereby the bonds of food molecules and oxygen molecules are broken and the bonds in new compounds are	Cells: 9, 10, 14, 15*, 16	LS1.A LS1.C LS2.B ETS1.B	Analyzing and Interpreting Data Connections to Nature of Science	Cause and Effect Energy and Matter	ELA/Literacy: RST.11-12.3 RST.11-12.7 WHST.9-12.2 WHST.9-12.9				

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math					
	HS. Structure and Function									
formed, resulting in a net transfer of energy.			Constructing Explanations and Designing Solutions Developing and Using Models Engaging in Argument from Evidence Planning and Conducting	Scale, Proportion, and Quantity Patterns Systems and System Models						
HS-LS2-3: Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.	Ecology: 6, 7, 8*	LS2.B	Investigations Constructing Explanations and Designing Solutions Connections to Nature of Science: Knowledge is Open to Revision in Light of New Evidence Obtaining, Evaluating, and Communicating Information Using Mathematics and Computational Thinking	Energy and Matter Scale, Proportion, and Quantity	ELA/ Literacy: RST.11-12.7 RST.11-12.9					
	Cells: 10, 15*	LS1.C LS2.B	Connections to Nature of Science Constructing Explanations and	Energy and Matter	ELA/Literacy: RST.11-12.3 WHST.9-12.9					

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math					
	HS. Structure and Function									
HS-LS2-4: Use mathematical representations to support claims for the cycling of matter and flow of energy among organisms in an ecosystem.	Ecology: 6, 7, 9, 10*	LS2.B	Designing Solutions Developing and Using Models Engaging in Argument from Evidence Constructing Explanations and Designing Solutions Developing and Using Models Engaging in Argument from Evidence Using Mathematics and Computational Thinking	Scale, Proportion, and Quantity Systems and System Models Energy and Matter Scale, Proportion, and Quantity Systems and System Models	ELA/ Literacy: RST.11-12.7 RST.11-12.9 Mathematics: MP.2 MP.4					
HS-LS2-5: Develop a model to illustrate the role of photosynthesis and cellular respiration in the cycling of carbon among the biosphere, atmosphere, hydrosphere, and geosphere.	Ecology: 11, 12*	LS2.B PS3.D	Analyzing and Interpreting Data Developing and Using Models	Energy and Matter Systems and System Models	RST.11-12.5 Mathematics: MP.2 MP.4					
	HS. Interdep	endent Relatio	onships in Ecosysten	ns						

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math					
	HS. Structure and Function									
HS-LS2-1: Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.	Ecology: 1, 2, 3*, 4	LS2.A LS2.C	Analyzing and Interpreting Data Asking Questions and Defining Problems Constructing Explanations and Designing Solutions Developing and Using Models Obtaining, Evaluating, and Communicating Information Using Mathematics and Computational Thinking	Cause and Effect Patterns Scale, Proportion, and Quantity Stability and Change Systems and System Models	ELA/ Literacy: RST.11-12.5 Mathematics: MP.2 MP.4 HSN.Q.A.1 HSN.Q.A.2 HSS-IC.A.1					
HS-LS2-2: Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales.	Ecology: 3, 4, 5*	LS2.A LS2.C	Analyzing and Interpreting Data Connections to Nature of Science: Scientific Knowledge is Open to Revision in Light of New Evidence Constructing Explanations and Designing Solutions	Cause and Effect Patterns Scale, Proportion, and Quantity Systems and System Models	ELA/ Literacy: RST.11-12.5 Mathematics: MP.2 MP.4 HSN.Q.A.1 HSN.Q.A.2 HSS-IC.A.1					

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math				
HS. Structure and Function									
			Developing and Using Models Obtaining, Evaluating, and Communicating Information Using Mathematics and Computational Thinking						
HS-LS2-6: Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.	Ecology: 13, 14*, 15, 16	LS2.A LS2.C LS4.D ETS1.A ETS1.B	Constructing Explanations and Designing Solutions Engaging in Argument from Evidence Connections to Nature of Science: Scientific Knowledge is Open to Revision in Light of New Evidence Obtaining, Evaluating, and Communicating Information	Cause and Effect Stability and Change	ELA/ Literacy: RST.11-12.5 RST.11-12.7 RST.11-12.9 WHST.9- 12.1 WHST.9- 12.7 Mathematics: MP.2 HSS-IC.B.6				
HS-LS2-7: Design, evaluate, and refine a solution for reducing the impacts of	Ecology: 13, 14, 15, 16, 17*	LS2.A LS2.C	Constructing Explanations and	Cause and Effect	ELA/ Literacy: RST.11-12.5 RST.11-12.7 RST.11-12.9				

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math						
	HS. Structure and Function										
human activities on the environment and biodiversity.		ETS1.A ETS1.B S2.C	Designing Solutions Engaging in Argument from Evidence Connections to Nature of Science: Scientific Knowledge is Open to Revision in Light of New Evidence Obtaining, Evaluating, and Communicating	Stability and Change	WHST.9- 12.1 WHST.9- 12.7 Mathematics: MP.2 HSS-IC.B.6						
	Cells: 1, 2, 3, 7, 13, 17	LS1.A LS1.C LS2.B ETS1.B	Asking Questions and Defining Problems Constructing Explanations and Designing Solutions Developing and Using Models Planning and Carrying Out Investigations Using Mathematics and Computational Thinking	Cause and Effect Connections to Nature of Science Energy and Matter Patterns Scale, Proportion, and Quantity Stability and Change Systems and System Models	ELA/ Literacy: RST.9-10.1 RST.11-12.3 RST.11-12.7 SL.11-12.5 Mathematics: MP.2						

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math
	H	IS. Structure a	nd Function		
	Genetics: 16, 17	LS2.C LS4.B LS4.C LS4.D	Analyzing and Interpreting Data Constructing Explanations and Designing Solutions	Patterns Stability and Change	ELA/ Literacy: RST.11-12.8 WHST.9- 12.9
	Evolution: 10, 13, 14*, 15*	ETS1.B LS2.C LS4.A LS4.B LS4.C LS4.D	Constructing Explanations and Designing Solutions Obtaining, Evaluating, and Communicating Information Using Mathematics and Computational Thinking	Cause and Effect Connections to Engineering, Technology, and Applications of Science: Influence of Science, Engineering, and Technology on Society and the Natural World Patterns Stability and Change Systems and System Models	ELA/ Literacy: RST.9-10.8 RST.11-12.1 RST.11-12.7 RST.11-12.8 SL.11-12.4 WHST.9- 12.2 WHST.9- 12.7 Mathematics: HSN.QA.1 MP.2 MP.4
HS-LS2-8: Evaluate the evidence for the role of group behavior on individual and species' chances to survive and reproduce.	Evolution: 1, 3*	LS2.D LS4.B LS4.C	Analyzing and Interpreting Data Connections to Nature of Science: Scientific Knowledge is Open to Revision	Cause and Effect Connections to Nature of Science: Scientific Knowledge Assumes an	RST.9-12.2 RST.11-12.1 RST.11-12.7 RST.11-12.8 Mathematics: MP.2 MP.4

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math				
HS. Structure and Function									
			in Light of New Evidence Constructing Explanations and Designing Solutions Engaging in Argument from Evidence	Order and Consistency in Natural Systems Patterns					
	HS. Inh	eritance and V	ariation of Traits						
HS-LS1-4: Use a model to illustrate the role of cellular division (mitosis) and differentiation in producing and maintaining complex organisms.	Genetics: 3, 8*	LS1.A LS1.B LS3.A	Developing and Using Models	Systems and Systems Models Structure and Function	Mathematics: MP.4				
HS-LS3-1: Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.	Genetics: 4, 5, 7, 10, 11*, 12*	LS1.A LS3.A LS3.B	Analyzing and Interpreting Data Asking Questions and Defining Problems Constructing Explanations and Designing Solutions Developing and Using Models Engaging in Argument from Evidence Using Mathematics and	Cause and Effect Scale, Proportion, and Quantity Structure and Function Systems and System Models	ELA/Literacy: RST.11-12.1 RST.11-12.9 WHST.9-12.1 WHST.9-12.2 WHST.9-12.9 Mathematics: MP.2				

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math				
HS. Structure and Function									
HS-LS3-2: Make and defend a claim based on evidence that inheritable genetic variations may result from (1) new genetic combinations through meiosis, (2) viable errors occurring during replication, and/or (3) mutations caused by environmental factors.	Genetics: 1, 6, 11, 12, 13*	LS1.A LS3.A LS3.B	Computational Thinking Analyzing and Interpreting Data Asking Questions and Defining Problems Developing and Using Models Engaging in	Cause and Effect Scale, Proportion, and Quantity Systems and System Models	ELA/Literacy: RST.11-12.1 RST.11-12.9 WHST.9-12.1 WHST.9-12.2 WHST.9-12.9 Mathematics: MP.2				
HS-LS3-3: Apply concepts of statistics and probability to explain the variation and distribution of expressed traits in a population.	Genetics: 4, 5, 6*, 14*	LS3.A LS3.B LS4.B	Argument from Evidence Analyzing and Interpreting Data Asking Questions and Defining Problems Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information Using Mathematics and Computational Thinking	Cause and Effect Patterns Scale, Proportion, and Quantity	ELA/Literacy: RST.11-12.1 RST.11-12.9 WHST.9-12.1 WHST.9-12.9 Mathematics: MP.2				
HS-LS1-8: Use models to illustrate how human reproduction and development maintains continuity of life.	Cells: 4.1, 4.2	LS1.A LS1.B	Constructing Explanations and Designing Solutions	Systems and System Models Connections to Nature of Science: Science	ELA/Literacy: SL.11-12.5 Mathematics: MP.2				

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math				
HS. Structure and Function									
			Developing and Using Models	is a Human Endeavor					
	HS. Na	atural Selectio	n and Evolution						
HS-LS4-1: Communicate scientific information that common ancestry and biological evolution are supported by multiple lines of empirical evidence.	Evolution: 6, 7, 8, 9, 10	LS2.C LS4.A LS4.B LS4.C LS4.D	Analyzing and Interpreting Data Constructing Explanations and Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information	Cause and Effect Patterns Connections to Nature of Science: Scientific Knowledge Assumes an Order and Consistency in Natural Systems Scale, Proportion, and Quantity Stability and Change	ELA/Literacy: RST.11-12.1 RST.11-12.7 RST.11-12.8 SL.11-12.4 WHST.9-12.2 WHST.9-12.9 Mathematics: MP.2				
HS-LS4-2: Construct an explanation based on evidence that the process of evolution primarily results from four factors: (1) the potential for a species to increase in number, (2) the heritable genetic variation of individuals in a species due to mutation and sexual reproduction, (3) competition for limited resources, and (4) the proliferation of those organisms that are better	Evolution: 1, 2, 3, 4, 5*, 6, 12	LS2.D LS4.A LS4.B LS4.C LS4.D	Analyzing and Interpreting Data Connections to Nature of Science: Scientific Knowledge is Open to Revision in Light of New Evidence Constructing Explanations and	Cause and Effect Patterns Connections to Nature of Science: Scientific Knowledge Assumes an Order and Consistency in Natural Systems	ELA/Literacy: RST.11-12.1 RST.11-12.7 RST.11-12.8 SL.11-12.4 WHST.9-12.2 WHST.9-12.9 Mathematics: MP.2 MP.4				

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math			
	HS. Structure and Function							
able to survive and reproduce in the environment.			Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information					
			Using Mathematics and Computational Thinking Analyzing and					
HS-LS4-3: Apply concepts of statistics and probability to support explanations that organisms with an advantageous heritable trait tend to increase in proportion to organisms lacking this trait.	Genetics: 14, 15, 16	LS1.A LS2.C	Interpreting Data Asking Questions and Defining	Patterns Scale,				
		LS3.B LS4.B	Problems Constructing	Proportion, and Quantity	ELA/Literacy: RST.11-12.8 WHST.9-12.9			
		LS4.C	Explanations and Designing Solutions	Stability and Change	Mathematics: MP.2			
		LS4.D ETS1.B	Obtaining, Evaluating, and Communicating Information	Structure and Function				
	Evolution: 1, 2, 3, 4*, 5, 6	LS2.D LS4.A	Analyzing and Interpreting Data	Cause and Effect	ELA/Literacy: RST.11-12.1 RST.11-12.7			
		LS4.B	Connections to Nature of Science:	Patterns Connections to	RST.11-12.8 SL.11-12.4 WHST.9-12.2			
		LS4.C	Scientific Knowledge is Open to Revision	Nature of Science: Scientific	WHST.9-12.9			

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math	
HS. Structure and Function						
			in Light of New Evidence Constructing Explanations and Designing Solutions Engaging in Argument from Evidence Using	Knowledge Assumes an Order and Consistency in Natural Systems	Mathematics: MP.2 MP.4	
			Mathematics and Computational Thinking Analyzing and			
HS-LS4-4: Construct an explanation based on evidence for how natural selection leads to adaptation of populations.	Evolution: 1, 2, 3, 4, 5, 6*, 11, 12	LS2.D LS4.A LS4.B LS4.C LS4.D	Interpreting Data Connections to Nature of Science: Scientific Knowledge is Open to Revision in Light of New Evidence Constructing Explanations and Designing Solutions Developing and Using Models Engaging in Argument from Evidence Obtaining, Evaluating, and	Cause and Effect Patterns Connections to Nature of Science: Scientific Knowledge Assumes an Order and Consistency in Natural Systems	ELA/Literacy: RST.11-12.1 RST.11-12.7 RST.11-12.8 SL.11-12.4 WHST.9-12.2 WHST.9-12.9 Mathematics: MP.2 MP.4	

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math		
	HS. Structure and Function						
			Communicating Information Using Mathematics and Computational Thinking				
HS-LS4-5: Evaluate the evidence supporting claims that changes in environmental conditions may result in (1) increases in the number of individuals of some species, (2) the emergence of new species over time, and (3) the extinction of other species.	Evolution: 6, 7, 8*, 9, 10	LS2.C LS4.A LS4.B LS4.C LS4.D	Analyzing and Interpreting Data Constructing Explanations and Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating, and Communicating Information	Cause and Effect Patterns Connections to Nature of Science: Scientific Knowledge Assumes an Order and Consistency in Natural Systems Scale, Proportion, and Quantity Stability and Change	ELA/Literacy: RST.11-12.1 RST.11-12.7 RST.11-12.8 SL.11-12.4 WHST.9-12.2 WHST.9-12.9 Mathematics: MP.2		
HS-LS4-6: Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity.	Evolution: 12, 13, 14*	ETS1.B LS2.C LS4.B LS4.C LS4.D	Constructing Explanations and Designing Solutions Obtaining, Evaluating, and Communicating Information Using Mathematics and	Cause and Effect Connections to Engineering, Technology, and Applications of Science: Influence of Science, Engineering, and Technology on Society and	ELA/Literacy: RST.11-12.7 RST.11-12.8 WHST.9-12.7 Mathematics: HSN.QA.1 MP.2 MP.4		

Performance Expectation	SGI Biology: Unit and Activity Number	Disciplinary Core Ideas	Science and Engineering Practices	Crosscutting Concepts	Common Core ELA/Math		
HS. Structure and Function							
			Computational Thinking	the Natural World Patterns Stability and Change Systems and			
HS-ETS1-3: Evaluate a solution to a complex real-world problem based on prioritized criteria and tradeoffs that account for a range of constraints, including cost, safety, reliability, and aesthetics as well as possible social, cultural, and environmental impacts.	Evolution: 13, 14*	ETS1.B LS2.C LS4.B LS4.C LS4.D	Constructing Explanations and Designing Solutions Using Mathematics and Computational Thinking	Cause and Effect Connections to Engineering, Technology, and Applications of Science: Influence of Science, Engineering, and Technology on Society and the Natural World Stability and Change Systems and System Models	ELA/Literacy: RST.11-12.8 WHST.9-12.7 Mathematics: HSN.QA.1 MP.2 MP.4		
HS-ETS1-4: Use a computer simulation to model the impact of proposed solutions to a complex real-world problem with numerous criteria and constraints on interactions within and between systems relevant to	Evolution: 13, 14*	ETS1.B LS2.C LS4.B LS4.C	Constructing Explanations and Designing Solutions Using Mathematics and Computational	Cause and Effect Connections to Engineering, Technology, and Applications of Science:	ELA/Literacy: RST.11-12.8 WHST.9-12.7 Mathematics: HSN.QA.1 MP.2 MP.4		
the problem.		LS4.D	Thinking	Influence of Science,			

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HS. Structure and Function						
				Engineering, and Technology on Society and the Natural World Stability and Change		
				Systems and System Models		