

Hitchhiking with H₂O

NEXT GENERATION SCIENCE STANDARDS / MISSOURI LEARNING STANDARDS

PHYSICAL SCIENCE		Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
PS1 - Matter and Its Interactions	A - Structure and Properties of Matter	K.PS1.A.1		2.PS1.A.1	3.PS1.A.1		5.PS1.A.1
				2.PS1.A.2			5.PS1.A.2
	B - Types of Interactions of Matter				3.PS1.B.1		5.PS1.B.1
							5.PS1.B.2
PS2 - Motion and Stability: Forces and Interactions	A- Forces and Motion	K.PS2.A.1		2.PS2.A.1	3-PS2-2	4.PS2.A.1	5-PS1-3
		K.PS2.A.2				4.PS2.A.2	
	B-Types of Interaction				3.PS2.B.1	4.PS2.B.1	5.PS2.B.1
						4.PS2.B.2	
PS3 - Energy	A- Definitions of Energy	K.PS3.A.1	1.PS3.A.1			4.PS3.A.1	
	B- Conservation of Energy and Energy Transfer	K.PS3.B.1				4.PS3.B.1	
						4.PS3.B.2	
	C- Relationship Between Energy and Forces					4.PS3.C.1	
	D- Energy in Chemical Process and Everyday						5.PS3.D.1
PS4 - Waves and Their Applications in technologies	A- Wave Properties		1.PS4.A.1	2.PS4.A.1		4.PS4.A.1	5.PS4.A.1
	B- Electromagnetic Radiation PS4						
	C- Information Technologies and Instrumentation		1.PS4.C.1				

LIFE SCIENCE		Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
LS1 - From Molecules to Organisms: Structure and Processes	A- Structure and Function		1.LS1.A.1			4.LS1.A.1	5.LS1.A.1
	B- Growth and Development of Organisms				3.LS1.B.1		
	C- Organization for Matter and Energy Flow in Organisms	K.LS1.C.1					5.LS1.C.1
	D- Information Processing					4.LS1.D.1	
LS2 - Ecosystems: Interactions, Energy, and Dynamics	A- Interdependent Relationships in Ecosystems			2.LS2.A.1			
				2.LS2.A.2			
	B-Cycles of matter and Energy Transfer in Ecosystems						5.LS2.B.1
LS3 - Heredity: Inheritance and Variation of Traits	A- Inheritance of Traits		1.LS3.A.1		3.LS3.A.1		
	B- Natural Selection				3.LS3.B.1		
	C- Adaptation				3.LS3.C.1		
	D- Biodiversity and Humans				3.LS3.D.1		

EARTH and SPACE SCIENCE		Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
ESS1 - Earth's Place in the Universe	A- The Universe and its Stars		1.ESS1.A.1				5.ESS1.A.1
			1.ESS1.A.2				
	B- Earth and the Solar System	K.ESS1.B.1					5.ESS1.B.1
							5.ESS1.B.2
	C- The History of Planet Earth			2.ESS1.C.1		4.ESS1.C.1	
ESS2 - Earth's Systems	A- Earth Materials and Systems			2.ESS2.A.1		4.ESS2.A.1	5.ESS2.A.1
	B- Plate Tectonics and Large-Scale Systems			2.ESS2.B.1		4.ESS2.B.1	
	C- The Role of Water in Earth's Surface Processes			2.ESS2.C.1			5.ESS2.C.1
	D- Weather and Climate	K.ESS2.D.1	1.ESS2.D.1		3.ESS2.D.1		
					3.ESS2.D.2		
	E- Biogeology	K.ESS2.E.1					
ESS3 - Earth and Human Activity	A- Natural Resources	K.ESS3.A.1				4.ESS3.A.1	
	B- Natural Hazards				3.ESS3.B.1		
	C- Human Impacts on Earth's Systems	K.ESS3.C.1					5.ESS3.C.1

ENGINEERING TECHNOLOGY and the APPLICATION OF SCIENCE		Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
ETS1 - Engineering Design	A- Defining and Delimiting Engineering Problems	K.ETS1.A.1	1.ETS1.A.1	2.ETS1.A.1	3.ETS1.A.1	4.ETS1.A.1	5.ETS1.A.1
	B- Developing Possible Solutions	K.ETS1.B.1	1.ETS1.B.1	2.ETS1.B.1	3.ETS1.B.1	4.ETS1.B.1	5.ETS1.B.1
	C- Optimizing the Solution Process	K.ETS1.C.1	1.ETS1.C.1	2.ETS1.C.1	3.ETS1.C.1	4.ETS1.C.1	5.ETS1.C.1