

# FREDDY THE FISH

## NEXT GENERATION SCIENCE STANDARDS / MISSOURI LEARNING STANDARDS

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

<b>LIFE SCIENCE</b>		<b>Grade K</b>	<b>Grade 1</b>	<b>Grade 2</b>
LS1 - From Molecules to Organisms: Structure and Processes	A- Structure and Function		1.LS1.A.1	
	B- Growth and Development of Organisms			
	C- Organization for Matter and Energy Flow in Organisms	K.LS1.C.1		
	D- Information Processing			
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			
LS3 - Heredity: Inheritance and Variation of Traits	A- Inheritance of Traits		1.LS3.A.1	
	B- Natural Selection			
	C- Adaptation			
	D- Biodiversity and Humans			

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

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