

Macro Monitoring

NEXT GENERATION SCIENCE STANDARDS / MISSOURI LEARNING STANDARDS

PHYSICAL SCIENCE		Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6-8
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	6-8PS1.A.1
				2.PS1.A.2			5.PS1.A.2	6-8PS1.A.2
								6-8PS1.A.3
								6-8PS1.A.4
	B - Types of Interactions of Matter				3.PS1.B.1		5.PS1.B.1	6-8PS1.B.1
							5.PS1.B.2	6-8PS1.B.2
PS2-Motion & Stability: Forces & Interactions	A- Forces and Motion	K.PS2.A.1		2.PS2.A.1	3-PS2-2	4.PS2.A.1	5-PS1-3	6-8PS2.A.1
		K.PS2.A.2				4.PS2.A.2		6-8PS2.A.2
	B-Types of Interaction				3.PS2.B.1	4.PS2.B.1	5.PS2.B.1	6-8PS2.B.1
						4.PS2.B.2		6-8PS2.B.2
								6-8.PS2.B.3
PS3 - Energy	A- Definitions of Energy	K.PS3.A.1	1.PS3.A.1			4.PS3.A.1		6-8PS3.A.1
								6-8PS3.A.2
								6-8PS3.A.3
								6-8PS3.A.4
	B- Conservation of Energy and Energy Transfer	K.PS3.B.1				4.PS3.B.1		6-8.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 for Information Transfer	A- Wave Properties		1.PS4.A.1	2.PS4.A.1		4.PS4.A.1	5.PS4.A.1	6-8PS4.A.1
	B- Electromagnetic Radiation PS4							6-8PS4.A.2
	C- Information Technologies and Instrumentation		1.PS4.C.1					MS-PS4-3

ENGINEERING TECHNOLOGY and the APPLICATION OF SCIENCE		Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6-8
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	6-8.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	6-8.ETS1.B.1
								6-8.ETS1.B.2
								6-8.ETS1.B.3
	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	

LIFE SCIENCE		Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6-8
LS1 - From Molecules to Organisms: Structure and Processes	A- Structure and Function		1.LS1.A.1			4.LS1.A.1	5.LS1.A.1	6-8.LS1.A.1
								6-8.LS1.A.2
								6-8.LS1.A.3
								6-8.LS1.A.4
	B- Growth and Development of Organisms				3.LS1.B.1			6-8.LS1.B.1
								6-8.LS1.B.2
	C-Organization for Matter & Energy Flow in Organisms	K.LS1.C.1					5.LS1.C.1	6-8.LS1.C.1
	D- Information Processing					4.LS1.D.1		MS-LS1-7
MS-LS1-8								
LS2-Ecosystems: Interactions, Energy, & Dynamics	A- Interdependent Relationships in Ecosystems			2.LS2.A.1				6-8.LS2.A.1
				2.LS2.A.2				6-8.LS2.A.2
	B-Cycles of matter and Energy Transfer in Ecosystems						5.LS2.B.1	6-8.LS2.B.1
	C-Ecosystem Dynamics, Functioning and Resilience							
								6-8.LS2.C.1
6-8.LS2.C.2								
LS3 - Heredity: Inheritance & Variation of Traits	A- Inheritance of Traits		1.LS3.A.1		3.LS3.A.1			
	B- Natural Selection				3.LS3.B.1			
	C- Adaptation			2-LS4-1	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	Grade 6-8
ESS1 - Earth's Place in the Universe	A- The Universe and its Stars		1.ESS1.A.1				5.ESS1.A.1	6-8.ESS1.A.1
								6-8.ESS1.A.2
			1.ESS1.A.2					6-8.ESS1.A.3
	B- Earth and the Solar System	K.ESS1.B.1					5.ESS1.B.1	6-8.ESS1.B.1
							5.ESS1.B.2	6-8.ESS1.B.2
	C- The History of Planet Earth			2.ESS1.C.1		4.ESS1.C.1		6-8.ESS1.C.1
ESS2 - Earth's Systems	A- Earth Materials and Systems			2.ESS2.A.1		4.ESS2.A.1	5.ESS2.A.1	6-8.ESS2.A.1
								6-8.ESS2.A.2
	B- Plate Tectonics and Large-Scale Systems			2.ESS2.B.1		4.ESS2.B.1		6-8.ESS2.B.1
	C- The Role of Water in Earth's Surface Processes			2.ESS2.C.1			5.ESS2.C.1	6-8.ESS2.C.1
								6-8.ESS2.C.2
								6-8.ESS2.C.3
	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		6-8.ESS3.A.1
	B- Natural Hazards				3.ESS3.B.1			6-8.ESS3.B.1
	C- Human Impacts on Earth's Systems	K.ESS3.C.1					5.ESS3.C.1	6-8.ESS3.C.1
								6-8.ESS3.C.2
	D-Global Climate Change							6-8.ESS3.D.1