K – 5 Scope and Sequence

January 2017

Unifying Themes						
Kindergarten	Grade One	Grade Two	Grade Three	Grade Four	Grade Five	
Cause and effect	Cause and effect	Cause and effect	Cause and effect	Energy and matter	Cause and effect	
Patterns	Patterns	Energy and matter:	Patterns	Cause and effect	Energy and matter	
Systems and system	Structure and function	flows, cycles, and	Scale, proportion, and	Patterns	Patterns	
models		conservation	quantity	Systems and system	Scale, proportion,	
		Patterns	Systems and system	models	quantity	
		Stability and change	models		Systems and system	
		Structure and function			models	

Inquiry and Design						
Kindergarten	Grade One	Grade Two	Grade Three	Grade Four	Grade Five	
Analyze and interpret	Analyze and interpret	Analyze and interpret	Analyze and interpret	Analyze and interpret	Analyze and interpret	
data	data	data	data	data	data	
Ask questions and	Ask questions and	Ask questions and	Ask questions and	Ask questions and	Ask questions and	
define problems	define problems	define problems	defining problems	defining problems	defining problems	
Construct explanations	Construct explanations	Construct explanations	Construct explanations	Construct explanations	Develop and use models	
and design solutions	and design solutions	and design solutions	and design solutions	and design solutions	Engage in argument	
Develop and use models	Obtain, evaluate, and	Develop and use models	Develop and use models	Develop and use models	from evidence	
Engage in argument	communicate	Engage in argument	Engage in argument	Engage in argument	Obtain, evaluate, and	
from evidence	information	from evidence Plan and	from evidence	from evidence	communicate	
Obtain, evaluate, and	Plan and carry out	carry out investigations	Obtain, evaluate, and	Obtain, evaluate, and	information	
communicate	investigations	Obtain, evaluate, and	communicate	communicate	Plan and carry out	
information		communicate	information	information	investigations	
Plan and carry out		information	Plan and carry out	Plan and carry out	Use mathematics and	
investigations			investigations	investigations	computational thinking	

Physical Science						
Kindergarten	Grade One	Grade Two	Grade Three	Grade Four	Grade Five	
Forces and motion Types of interactions Energy and forces Conservation of energy Energy Transfer	Sound Light	Structure and properties of matter Chemical reactions	Forces and motion Types of interactions	Energy Conservation of energy and energy transfer Relationship between energy and forces Energy in chemical processes and everyday life Wave properties Light Electricity Magnetism	Structure and properties of matter Chemical reactions Types of interactions Energy in chemical processes and everyday life Organization for matter and energy flow in organisms	

Life Science						
Kindergarten	Grade One	Grade Two	Grade Three	Grade Four	Grade Five	
Matter and energy flow in organisms	Structure and function Growth and development of organisms Inheritance of traits Variation of traits	Interdependent relationships in ecosystems Biodiversity and humans	Growth and development of organisms Interactions and group behavior Inheritance of traits Variation of traits Ecosystem dynamics, function, resilience	Structure and function Information processing	Organization for matter and energy flow in organisms Interdependent relationships in ecosystems Cycles of matter and energy transfer in ecosystems	
			Evidence of common ancestry and diversity Natural selection Adaptation Biodiversity and humans			

Earth and Space Science						
Kindergarten	Grade One	Grade Two	Grade Three	Grade Four	Grade Five	
Weather and climate	Universe and stars	History of planet Earth	Weather and climate	History of planet Earth	The universe and its	
Biogeology	Earth and solar system	Earth materials and	Natural hazards	Earth materials and	stars	
Human impact on Earth		systems		systems	Earth and the solar	
systems		Plate tectonics and large		Plate tectonics and large	system	
Natural resources		scale system		scale system	Earth materials and	
Natural hazards		interactions		interactions	systems	
		Roles of water in Earth's		Biogeology	Roles of water in Earth's	
		surface processes		Natural resources	surface processes	
				Natural hazards	Human impact on Earth	
					systems	