



		Grade 4				
		Curriculum Titles	4: Makin' Waves	4: Full of Potential	4: Parts of a Whole	4: Centuries of Change
Standard Topics	Earth's Systems: Processes that Shape the Earth				1,2,A	
	Energy		1, A			
	Structure, Function, and Information Processing	2		1, A		
	Waves: Waves and Information	1, A				
Scientific & Engineering Practices	Analyzing and Interpreting Data				1	
	Asking Questions and Defining Problems		1			
	Constructing Explanations and Designing Solutions	A	A		1, A	
	Developing and Using Models	1, 2		1		
	Engaging in Argument from Evidence			1, A		
	Obtaining, Evaluating, and Communication Information				2	
	Planning and Carrying Out Investigations		1		2	
Three Dimensional Teaching	Disciplinary Core Ideas	Biodiversity and Humans		A		
		Biogeology				2
		Conservation of Energy and Energy Transfer		1		
		Definitions of Energy		1		
		Designing Solutions to Engineering Problems				A
		Earth Materials and Systems				2
		Ecosystem Dynamics, Functioning, and Resilience		A		
		Electromagnetic Radiation	2			
		Information Processing			1	
		Information Technologies and Instrumentations	A			
		Natural Hazards				A
		Natural Resources				2
		Optimizing the Design Solution	A			
		Plate Tectonics and Large-Scale Systems				1
		Structure and Function			1, A	
		The History of Planet Earth				1
		Wave Properties	1			
Crosscutting Concepts	Cause and Effect	2, A			2, A	
	Energy and Matter		1			
	Influence on Engineering, Technology, and Science, on Society and the Natural World				2, A	
	Interdependence of Science, Engineering, and Technology	A			2	
	Patterns	1			1	
	Systems and System Models		A	1, A		

"#s" indicate relevant unit strand; "A" indicates Assessment Strand.