

Comparison of When Discipline Core Ideas Are Addressed in the Two Middle School Models

Disciplinary Core Idea			Subtopic	Preferred Integrated			Discipline Specific		
				6	7	8	6	7	8
1	Earth’s Place in the Universe	Universe, Stars, Solar System			X	X			
		History of Planet Earth			X	X			
2	Earth’s Systems	Water Cycle, Weather, Climate	X			X			
		Rock cycle, Plate tectonics		X		X			
3	Earth and Human Activity	Global climate change causes	X			X			
		Resources availability		X		X			
		Natural hazards		X		X			
		Resource consumption			X	X			
1	From Molecules to Organisms: Structures and Processes	Cells & Body Systems	X				X		
		Photosynthesis & Respiration		X			X		
2	Ecosystems: Interactions, Energy, and Dynamics			X			X		
3	Heredity: Inheritance and Variation of Traits	Sexual v. Asexual reproduction	X				X		
		Mutations			X		X		
4	Biological Evolution: Unity and Diversity				X		X		
1	Matter and its Interactions	Atoms, Molecules, States of Matter		X				X	
		Chemical Reactions		X				X	
2	Motion and Stability: Forces and Interactions				X			X	
3	Energy	Kinetic Energy & Collisions	X		X			X	
		Heat & Heat Flow	X					X	
		Potential Energies & Gravity			X			X	
4	Waves and Their Applications in Technologies for Information Transfer				X			X	
Every course includes integrations with ETS			X	X	X	X	X	X	
Every course utilizes all 8 SEPs			X	X	X	X	X	X	
Every course highlights all 7 CCCs			X	X	X	X	X	X	