

NGSS Disciplinary Core Ideas Matrix

	DCI	Topic	K	1	2	3	4	5	MS-LS	MS-PS	MS-ESS	MS-ETS	HS-LS	HS-PS	HS-ESS	HS-ENG
Life Sciences	LS1A	Structure and Function														
	LS1B	Growth and Development of Organisms														
	LS1C	Organization for Matter and Energy Flow in Organisms														
	LS1D	Information Processing														
	LS2A	Interdependent Relationships in Ecosystems														
	LS2B	Cycles of Matter and Energy Transfer in Ecosystems														
	LS2C	Ecosystem Dynamics, Functioning, and Resilience														
	LS2D	Social Interactions and Group Behavior														
	LS3A	Inheritance of Traits														
	LS3B	Variation of Traits														
	LS4A	Evidence of Common Ancestry and Diversity														
	LS4B	Natural Selection														
	LS4C	Adaptation														
	LS4D	Biodiversity and Humans														
Physical Sciences	PS1A	Structure and Properties of Matter														
	PS1B	Chemical Reactions														
	PS1C	Nuclear Processes														
	PS2A	Forces and Motion														
	PS2B	Types of Interactions														
	PS2C	Energy in Chemical Processes and Everyday Life														
	PS3A	Definitions of Energy														
	PS3B	Conservation of Energy and Energy Transfer														
	PS3C	Relationships Between Energy and Forces														
	PS3D	Energy in Chemical Properties and Everyday Life														
	PS4A	Wave Properties														
	PS4B	Electromagnetic Radiation														
	PS4C	Information Technologies and Instrumentation														
	Earth Space Sciences	ESS1A	The Universe and its Stars													
ESS1B		Earth and the Solar System														
ESS1C		The History of Planet Earth														
ESS2A		Earth Materials and Systems														
ESS2B		Plate Tectonics and Large-Scale Systems														
ESS2C		The Roles of Water in Earth's Surface Processes														
ESS2D		Weather and Climate														
ESS2E		Biogeology														
ESS3A		Natural Resources														
ESS3B		Natural Hazards														
ESS3C		Human Impacts on Earth Systems														
ESS3D		Global Climate Change														
ETS		ETS1A	Defining and Delimiting Engineering Problems													
	ETS1B	Developing Possible Solutions														
	ETS1C	Optimizing Design Solutions														