

SEP (Science Practices) Breakdown by Grade Level:

	K	1	2	3	4	5	6
Asking Questions (Science)	K-ESS3-2			3-PS2-3	4-PS3-3		MS-ESS3-5
Defining Problems (Engineering)				3-PS2-4			
Developing and using models	K-ESS3-1		2-ESS2-2 2-LS2-2	3-LS1-1	4-LS1-2 4-PS4-1 4-PS4-2	5-PS3-1 5-ESS2-1 5-LS2-1 5-PS1-1	MS-LS1-2 MS-LS3-2 MS-ESS2-4 MS-ESS2-6
Planning and Carrying out Investigations	K-PS3-1 K-PS2-1	1-ESS1-2 1-PS4-1 1-PS4-3	2-PS1-1 2-LS2-1 2-LS4-1	3-PS2-1 3-PS2-2	4-ESS2-1 4-PS3-2	5-PS1-4 5-PS1-3	MS-LS1-1 MS-PS3-4 MS-ESS2-5
Analyzing and Interpreting Data	K-LS1-1 K-ESS2-1	1-ESS1-1	2-PS1-2	3-LS4-1 3-LS3-1 3-ESS2-1	4-ESS2-2	5-ESS1-2	
Mathematics and Computational Thinking						5-PS1-2 5-ESS2-2	
Construct Explanations (for science)				3-LS4-2			
Designing Solutions (for Engineering)	K-ESS3-3 K-PS3-2 K-PS2-2	1-PS4-4 1-LS1-1	2-ESS2-1 2-ESS1-1 2-PS1-3		4-ESS3-2 4-PS4-3 4-PS3-4		MS-PS3-3 MS-ESS3-3
Engaging in Argument from evidence	K-ESS2-2	1-PS4-2 1-LS3-1	2-PS1-4	3-LS2-1 3-LS3-2 3-LS4-3 3-LS4-4 3-ESS3-1	4-LS1-1 4-ESS1-1 4-PS3-1	5-PS2-1 5-ESS1-1 5-LS1-1	MS-LS1-3 MS-LS1-4 MS-LS1-5 MS-PS3-5
Obtain, Evaluate, Communicate information		1-LS1-2	2-ESS2-3	3-ESS2-2	4-ESS3-1	5-ESS3-1	

CCC (Crosscutting Concepts) Breakdown by Grade Level:

	K	1	2	3	4	5	6
Patterns	K-ESS2-1 K-LS1-1	1-LS1-2 1-LS3-1 1-ESS1-1	2-LS4-1 2-ESS2-3 2-PS1-2 2-PS1-1 2-ESS2-2	3-LS1-1 3-LS3-1 3-ESS2-1 3-ESS2-2 3-PS2-2	4-PS4-1 4-ESS1-1 4-ESS2-2	5-ESS1-2	
C & E: Mechanisms & Explanation	K-PS2-1 K-PS3-1 K-PS3-2 K-ESS3-2 K-ESS3-3 K-PS2-2	1-PS4-4 1-PS4-1 1-PS4-2 1-ESS1-2	2-PS1-4 2-LS2-1	3-LS2-1 3-LS3-2 3-LS4-2 3-LS4-3 3-PS2-1 3-PS2-3 3-ESS3-1	4-ESS2-1 4-ESS3-1 4-ESS3-2 4-PS4-2	5-PS1-4 5-PS2-1	MS-LS1-4 MS-LS1-5 MS-LS3-2 MS-ESS2-5 MS-ESS3-3
Scale, Proportion, & Quantity				3-LS4-1		5-PS1-2 5-PS1-3 5-ESS1-1 5-ESS2-2 5-PS1-1	MS-LS1-1 MS-PS3-4
Systems & System Models	K-ESS2-2 K-ESS3-1			3-LS4-4	4-LS1-1 4-LS1-2	5-ESS2-1 5-ESS3-1 5-LS2-1	MS-LS1-3 MS-ESS2-6
Energy & Matter: Flow, Cycle, Conservation			2-PS1-3		4-PS3-1 4-PS3-2 4-PS3-3 4-PS3-4 4-PS4-3	5-PS3-1 5-LS1-1	MS-PS3-3 MS-PS3-5 MS-ESS2-4
Structure & Function		1-LS1-1	2-LS2-2				MS-LS1-2
Stability & Change			2-ESS1-1 2-ESS2-1				MS-ESS3-5

DCI (Disciplinary Core Ideas) Breakdown by Grade Level:

	K	1	2	3	4	5	6
LS1: From Molecules to Organisms		1-LS1-1 1-LS1-2		3-LS1-1	4-LS1-1 4-LS1-2	5-LS1-1	MS-LS1-1 MS-LS1-2 MS-LS1-3 MS-LS1-4 MS-LS1-5
LS2: Ecosystems				3-LS2-1		5-LS2-1	
LS3: Heredity		1-LS3-1	2-LS2-1 2-LS2-2	3-LS3-1 3-LS3-2			MS-LS3-2
LS4: Evolution			2-LS4-1	3-LS4-1 3-LS4-2 3-LS4-3 3-LS4-4			
PS1: Matter and Its Interactions	K-LS1-1		2-PS1-1 2-PS1-2 2-PS1-3 2-PS1-4			5-PS1-1 5-PS1-2 5-PS1-3 5-PS1-4	
PS2: Motion and Stability: Forces and Interactions	K-PS2-1 K-PS2-2			3-PS2-1 3-PS2-2 3-PS2-3 3-PS2-4		5-PS2-1	
PS3: Energy	K-PS3-1 K-PS3-2				4-PS3-1 4-PS3-2 4-PS3-3 4-PS3-4	5-PS3-1	MS-PS3-3 MS-PS3-4 MS-PS3-5
PS4: Waves and Their Applications in Technology		1-PS4-1 1-PS4-2 1-PS4-3 1-PS4-4			4-PS4-1 4-PS4-2 4-PS4-3		
ESS1: Earth's Place in the Universe		1-ESS1-1 1-ESS1-2	2-ESS1-1		4-ESS1-1	5-ESS1-1 5-ESS1-2	

ESS2: Earth's Systems	<u>K-ESS2-1</u> <u>K-ESS2-2</u>		<u>2-ESS2-1</u> <u>2-ESS2-2</u> <u>2-ESS2-3</u>	<u>3-ESS2-1</u> <u>3-ESS2-2</u>	<u>4-ESS2-1</u> <u>4-ESS2-2</u>	<u>5-ESS2-1</u> <u>5-ESS2-2</u>	<u>MS-ESS2-4</u> <u>MS-ESS2-5</u> <u>MS-ESS2-6</u>
ESS3: Human Impacts on the Earth	<u>K-ESS3-1</u> <u>K-ESS3-2</u> <u>K-ESS3-3</u>			<u>3-ESS3-1</u>	<u>4-ESS3-1</u> <u>4-ESS3-2</u>	<u>5-ESS3-1</u>	<u>MS-ESS3-3</u> <u>MS-ESS3-5</u>

