

Grade 5, arranged by DCI	Content Alignment Level	Operational Cluster & Item Ranges				Min Stand Alone Items	Max Stand Alone Items	Min Clusters + Min Stand Alone Items	Max Clusters + Max Stand Alone Items
		Content Alignment	Min Clusters	Max Clusters					
Discipline - Physical Science, PE Total = 17	Science Discipline	PS	2	2	4	4	6	6	
DCI - Motion and Stability: Forces and Interactions	DCI	PS2	0	1	0	2	0	3	
3-PS2-1 : Forces and Motion, Types of Interactions	PE	3-PS2-1	0	1	0	1	0	1	
3-PS2-2 : Forces and Motion	PE	3-PS2-2	0	1	0	1	0	1	
3-PS2-3 : Types of Interactions	PE	3-PS2-3	0	1	0	1	0	1	
3-PS2-4 : Types of Interactions*	PE	3-PS2-4	0	1	0	1	0	1	
5-PS2-1 : Types of Interactions, Space Systems	PE	5-PS2-1	0	1	0	1	0	1	
DCI - Energy	DCI	PS3	0	1	0	2	0	3	
4-PS3-1 : Energy	PE	4-PS3-1	0	1	0	1	0	1	
4-PS3-2 : Conservation and Transfer of Energy	PE	4-PS3-2	0	1	0	1	0	1	
4-PS3-3 : Conservation and Transfer of Energy, Energy and Forces	PE	4-PS3-3	0	1	0	1	0	1	
4-PS3-4 : Conservation and Transfer of Energy*	PE	4-PS3-4	0	1	0	1	0	1	
5-PS3-1 : Matter & Energy	PE	5-PS3-1	0	1	0	1	0	1	
DCI - Waves and Their Applications in Technologies for Information Transfe	DCI	PS4	0	1	0	2	0	3	
4-PS4-1 : Wave Properties	PE	4-PS4-1	0	1	0	1	0	1	
4-PS4-2 : Electromagnetic Radiation	PE	4-PS4-2	0	1	0	1	0	1	
4-PS4-3 : Information Technological Technologies*	PE	4-PS4-3	0	1	0	1	0	1	
DCI - Matter and Its Interactions	DCI	PS1	0	1	0	2	0	3	
5-PS1-1 : Structure & Properties of Matter	PE	5-PS1-1	0	1	0	1	0	1	
5-PS1-2 : Structure & Properties of Matter, Chemical Reactions	PE	5-PS1-2	0	1	0	1	0	1	
5-PS1-3 : Structure & Properties of Matter	PE	5-PS1-3	0	1	0	1	0	1	
5-PS1-4 : Chemical Reactions	PE	5-PS1-4	0	1	0	1	0	1	
Discipline - Life Science, PE Total = 12	Science Discipline	LS	2	2	4	4	6	6	
DCI - From Molecules to Organisms: Structure and Function	DCI	LS1	0	1	0	2	0	3	
3-LS1-1 : Growth and Development of Organisms	PE	3-LS1-1	0	1	0	1	0	1	
4-LS1-1 : Structure, Function	PE	4-LS1-1	0	1	0	1	0	1	
4-LS1-2 : Information Processing	PE	4-LS1-2	0	1	0	1	0	1	
5-LS1-1 : Matter & Energy Flow in Organisms	PE	5-LS1-1	0	1	0	1	0	1	
DCI - Ecosystems: Interactions, Energy, and Dynamics	DCI	LS2	0	1	0	2	0	3	
3-LS2-1 : Social Interactions and Group Behavior	PE	3-LS2-1	0	1	0	1	0	1	
5-LS2-1 : Matter & Energy in Ecosystems	PE	5-LS2-1	0	1	0	1	0	1	
DCI - Inheritance and Variation of Traits	DCI	LS3	0	1	0	2	0	3	
3-LS3-1 : Inheritance and Variation of Traits	PE	3-LS3-1	0	1	0	1	0	1	
3-LS3-2 : Inheritance and Variation of Traits	PE	3-LS3-2	0	1	0	1	0	1	
DCI - Biological Evolution: Unity and Diversity	DCI	LS4	0	1	0	2	0	3	
3-LS4-1 : Evidence of Common Ancestry and Diversity	PE	3-LS4-1	0	1	0	1	0	1	
3-LS4-2 : Natural Selection	PE	3-LS4-2	0	1	0	1	0	1	
3-LS4-3 : Adaptation	PE	3-LS4-3	0	1	0	1	0	1	

3-LS4-4 : Ecosystems*	PE	3-LS4-4	0	1	0	1	0	1
Discipline - Earth and Space Science, PE Total = 13	Science Discipline	ESS	2	2	4	4	6	6
DCI - Earth's Systems	DCI	ESS2	0	1	0	2	0	3
3-ESS2-1 : Weather & Climate	PE	3-ESS2-1	0	1	0	1	0	1
3-ESS2-2 : Weather & Climate	PE	3-ESS2-2	0	1	0	1	0	1
4-ESS2-1 : Earth Materials and Systems	PE	4-ESS2-1	0	1	0	1	0	1
4-ESS2-2 : Plate Tectonics and System Interactions	PE	4-ESS2-2	0	1	0	1	0	1
5-ESS2-1 : Earth Materials and Systems	PE	5-ESS2-1	0	1	0	1	0	1
5-ESS2-2 : Roles of Water in Earth's Surface Processes	PE	5-ESS2-2	0	1	0	1	0	1
DCI - Earth and Human Activity	DCI	ESS3	0	1	0	2	0	3
3-ESS3-1 : Natural Hazards*	PE	3-ESS3-1	0	1	0	1	0	1
4-ESS3-2 : Natural Hazards*	PE	4-ESS3-2	0	1	0	1	0	1
4-ESS3-1 : Natural Resources	PE	4-ESS3-1	0	1	0	1	0	1
5-ESS3-1 : Human Impacts on Earth Systems	PE	5-ESS3-1	0	1	0	1	0	1
DCI - Earth's Place In the Universe	DCI	ESS1	0	1	0	2	0	3
4-ESS1-1 : Earth's History	PE	4-ESS1-1	0	1	0	1	0	1
5-ESS1-1 : The Universe and Its Stars	PE	5-ESS1-1	0	1	0	1	0	1
5-ESS1-2 : Earth and the Solar System	PE	5-ESS1-2	0	1	0	1	0	1
PE Total = 42			6	6	12	12	18	18

*These PE's have an Engineering component