

How to use the matrices:

As you explore the matrices, you will be able to see when a particular Priority Performance Indicator (PPI) is used, at which grade level, and how many times over a student’s K-12 educational experience.

For grades K-5, the IRIS and Transferable Skills PPIs are shared across the content areas and labeled by the unit number (“U2”).

For grades 6-12, you will see codes used to indicate the content area, grade level, and unit number. For example, “M6.2” means that the PPI is integrated into the 2nd Unit, in 6th Grade, in Mathematics. For grades 9-12, the courses are aligned to the grade in the chart below:

Ex: 6.2	6th Grade, Unit #2
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Content Area:	Code:	9th Grade:	10th Grade:	11th Grade:	12th Grade:
English Language Arts	ELA	9th Grade	10th Grade	11th Grade	12th Grade
Essential Arts	EA				
Mathematics	M	Algebra I	Geometry	Algebra 2	Statistics
Science	S	Earth Science	Biology	Chemistry	Physics
Social Studies	SS	World History	US History	Civics	Psychology/ Economics

1. Structure and Function	A. Matter and Its Interactions: Structure of Matter	B. Waves and Their Applications: Structure of Waves and Their Applications in Technology (K-5; 9-12)	B. Waves and Their Applications in Technologies for Information Transfer (6-8)	C. From Molecules to Organisms: Structure and Function of Organisms	D. Engineering Design (K-2)
Kindergarten				K.3	
1st Grade		1.2			1.8
2nd Grade	2.2				
3rd Grade					
4th Grade		4.2		4.7	
5th Grade	5.5				
6th Grade	6.1		6.2	6.3	
7th Grade			7.3		
8th Grade			8.3		
9th Grade					
10th Grade				10.1, 10.2, 10.8	
11th Grade	11.1, 11.6				
12th Grade		12.2, 12.5			

2. Cause and Effect	A. Earth's Systems: Connections Between Physical Earth and Evolution	B. Earth's Systems: Interconnectedness of Earth's Spheres	C. Ecosystems: Interactions, Energy, and Dynamics (6-12)	D. Biological Evolution: Unity and Diversity- Response to Environmental Conditions (3-5, 9-12)	D. Biological Evolution: Unity and Diversity (K-8)	E. Heredity: Inheritance and Variation of Traits (K-2)
Kindergarten						
1st		1.7				
2nd	2.8					
3rd				3.1	3.6	
4th						
5th		5.7				
6th	6.4	6.5				
7th			7.4		7.6	
8th					8.6	
9th	9.1, 9.2	9.3				
10th			10.6	10.3, 10.4		
11th						
12th		12.6				

3. Energy and Matter	A. Matter and Its Interactions	B. Energy (3-12)	C. Ecosystems: Interactions, Energy, and Dynamics	D. Earth's Systems
Kindergarten			K.2	
1st Grade				
2nd Grade	2.6		2.3	
3rd Grade				3.8
4th Grade		4.8		
5th Grade	5.8			
6th Grade			6.6	6.8
7th Grade	7.1	7.2		7.5
8th Grade	8.1	8.2		8.5
9th Grade				9.4
10th Grade			10.5	
11th Grade	11.2, 11.4, 11.7	11.3, 11.5		11.8
12th Grade		12.1, 12.3		12.4

4. Systems and Systems Models	A. Earth and Human Activity: Impact on Earth's Systems	B. Engineering Design	C. Earth Systems (3-5)	C. Earth and Human Activity: Climate Change (K-2, 6-12)
Kindergarten	K.6	K.7		
1st Grade		1.3		
2nd Grade				
3rd Grade		3.2		
4th Grade			4.4	
5th Grade	5.4			
6th Grade		6.7		
7th Grade	7.7	7.8		
8th Grade	8.7	8.8		8.4
9th Grade	9.5	9.8		9.6, 9.7
10th Grade		10.7		
11th Grade				
12th Grade	12.8	12.7		