

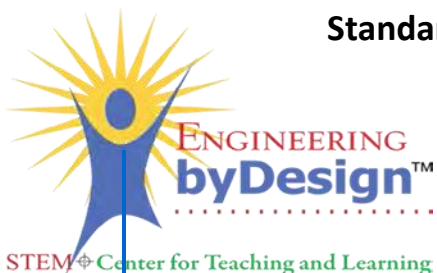
EbD™ Alignment with the Grand Challenges for Engineering



Key

- 4 = Content is directly integrated into lessons in detail and assessed.
- 3 = Content is covered, but topics and lesson do not center on the content. May or may not be assessed.
- 2 = Topics and lessons refer to previous knowledge and integrate content.
- 1 = Topics and lessons refer to previous knowledge.

	EbD-TEEMS Pre-K	EbD-TEEMS K	EbD-TEEMS 1	EbD-TEEMS 2	EbD-TEEMS 3	EbD-TEEMS 4	EbD-TEEMS 5	Exploring Technology 3	Invention and Innovation 3	Technological Systems 3	Foundations of Technology 3	Technological Design 3	Advanced Design Applications	Advanced Technological Applications	Engineering Design 3
Solar						4							3		
Nitrogen Cycles															
Health Informatics											2				
Nuclear Terror															
Personalized Learning								2	2	2					
Energy from Fusion								1							
Clean Water					4		4		1			2			3
Better Medicines															
Secure Cyberspace														4	
Tools of Scientific Discovery	1		3	2				3	3	3	4	3			
Carbon Sequestration															4
Urban Infrastructure		3			3	4	4	2	2		2	3	3	4	3
Reverse-Engineer the Brain															
Enhance Virtual Reality												4			



Standards for Technological Literacy and EbD™ Assessment Alignment with the Grand Challenges for Engineering

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GRAND CHALLENGES FOR ENGINEERING	EbD-TEEMS - Grade Pre-K	EbD-TEEMS - Grade K	EbD-TEEMS - Grade 1	EbD-TEEMS - Grade 2	EbD-TEEMS - Grade 3	EbD-TEEMS - Grade 4	EbD-TEEMS - Grade 5	Exploring Technology 3	Invention & Innovation 3	Technological Systems 3	Foundations of Technology 3	Technological Design 3	Advanced Design Applications	Advanced Technological Applications	Engineering Design 3
Solar						4, STEL 8F							3 STEL 2W		
Nitrogen Cycles															
Health Informatics											2, STEL 3I				
Nuclear Terror															
Personalized Learning								2, STEL 3H	2, STEL 1M	2, STEL 1M					
Energy from Fusion								1, STEL 3F							
Clean Water					4, STEL 4I		4, STEL 4I		1, STEL 3E			2 STEL 4P			3 STEL 4P
Better Medicines															
Secure Cyberspace														4 STEL 5H	
Tools of Scientific Discovery	2, STEL 4F		3, STEL 7F	2, STEL 7F				3, STEL 7Z	3, STEL 7Q STEL 7R	3, STEL 7Q STEL 7R	4, STEL 1R STEL 7W STEL 7Y	3 STEL 6F			
Carbon Sequestration				4, STEL 7J											4 STEL 2U
Urban Infrastructure		3, STEL 7A			3, STEL 7F	4, STEL 3D	4, STEL 4F, 5D	2, STEL 2N	2, STEL 4K		2, STEL 7BB STEL 7CC	3 STEL 7W	3 STEL 1P	4 STEL 7BB	3 STEL 1P
Reverse-Engineer the Brain															
Enhance Virtual Reality												4 STEL 1P STEL 1Q			