

# Ebd™ Alignment with the Grand Challenges for Engineering



<b>Key</b>	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 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	Technology and Society 2	Technological Design 3	Advanced Design Applications	Advanced Technological Applications	Engineering Design 3
Solar			3		4		4			2			3		
Nitrogen Cycles		4					3								4
Health Informatics			4			4		4			3				
Nuclear Terror									2		4				
Personalized Learning										4					
Energy from Fusion					3								4		
Clean Water				4			4	1	2		4				3
Better Medicines			4				4	2	1			4		2	
Secure Cyberspace		3			3		4	2	4					4	
Tools of Scientific Discovery								4	3			4			
Carbon Sequestration			4				4	4							4
Urban Infrastructure	3	3	3	3	4	4	4	4	3	4					3
Reverse-Engineer the Brain														4	
Enhance Virtual Reality							3	4	3					4	

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



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	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	Technology and Society 2	Technological Design 3	Advanced Design Applications	Advanced Technological Applications	Engineering Design 3
															
Solar			3, STL 19B		4, STL 10C		3, STL 1F			2 STL 2X			3 STL 5L		
Nitrogen Cycles		4, STL 8C 15A					2, STL 5F								4 STL 15N
Health Informatics			4, STL 14BC			4, STL 14DEF	2, STL 17H				3 STL 6j				
Nuclear Terror								2, STL 4G			3 STL4j				
Personalized Learning										4 STL 6J					
Energy from Fusion					3, STL 19C								4 STL 16J		
Clean Water				4, STL 5B 15D				3, STL 10H			4 STL 5G				3 STL 5J
Better Medicines			4, STL 14A				2, STL 14G					4 STL 6I		2 STL 14K	
Secure Cyberspace		3 STL 17B			3, STL 17D				3, STL 4E					4 STL 17 O	
Tools of Scientific Discovery									4, STL 3F			4 STL 3H			
Carbon Sequestration			4, STL 11F						3, STL 13H						4 STL 5K
Urban Infrastructure	3, STL 8B	3, STL 18B	3, STL 20A	3, STL 18 D	4, STL 3C	4, STL 5C, 6C			4, STL 2R	4 STL 7J					3 STL 6J
Reverse-Engineer the Brain														4 STL 14L	
Enhance Virtual Reality								4, STL 1G						4 STL 17P	