

Stony Brook University I-STEM Engineering Teaching Labs Curriculum Alignment for Middle School

Core Curriculum	Key Idea	Performance Indicator	Light Strobe	Home Security	Night Light LED	Audio Laser	Metal Detector
STANDARD 1: Analysis, Inquiry, and Design							
Mathematical Analysis	1		✓	✓	✓	✓	✓
	2		✓	✓	✓	✓	✓
	3		✓	✓	✓	✓	✓
Scientific Inquiry	1		✓	✓	✓	✓	✓
	2		✓	✓	✓	✓	✓
	3		✓	✓	✓	✓	✓
Engineering Design	1		✓	✓	✓	✓	✓
STANDARD 2: Information Systems							
	1		✓	✓	✓	✓	✓
	2		✓	✓	✓	✓	✓
	3		✓	✓	✓	✓	✓
STANDARD 4: Science- The Physical Setting							
	1	1.1					
	2	2.1					
		2.2					
	3	3.1 a	✓	✓	✓	✓	✓
		3.2					
		3.3g	✓	✓	✓	✓	✓
	4	4.1d	✓	✓	✓	✓	✓
		4.2a	✓	✓		✓	
		4.2d					
		4.3 a	✓	✓	✓	✓	✓
		4.4 a	✓		✓		
		4.4b	✓			✓	
		4.4c		✓		✓	✓
		4.4 d	✓	✓	✓	✓	✓
		4.4 e	✓	✓	✓	✓	✓
	5	4.5 a	✓	✓	✓	✓	✓
		4.5 b	✓	✓	✓	✓	✓
		5.1					
		5.2b	✓	✓	✓	✓	✓
STANDARD 6: Interconnectedness							
	1		✓	✓	✓	✓	✓
	2		✓	✓	✓	✓	✓
	3		✓	✓	✓	✓	✓
	4						
	5		✓	✓	✓	✓	✓
	6		✓	✓	✓	✓	✓
STANDARD 7: Interdisciplinary Problem Solving							
	1		✓	✓	✓	✓	✓
	2		✓	✓	✓	✓	✓
NYS P-12 Science Learning Standards			Light Strobe	Home Security	Night Light LED	Audio Laser	Metal Detector
<i>Only Performance Expectations listed. Please refer to the NYSSLS standards for corresponding DCI, CCC, and SEP.</i>							
Structure and Properties of Matter & Chemical Reactions	MS-PS1	1					
		2					
		3					
		4		✓	✓		✓
		5					
		6					
		7					
		8		✓	✓		✓
Forces and Interactions	MS-PS2	1					
		2					

			3	✓	✓	✓	✓	✓
			4					
			5					
Energy	MS-PS3		1					
			2					
			3					
			4					
			5	✓	✓	✓	✓	✓
			6	✓	✓	✓	✓	✓
Waves and Electromagnetic Radiation	MS-PS4		1	✓		✓		
			2	✓		✓		
			3	✓	✓	✓	✓	✓
Engineering Design	MS-ETS		1	✓	✓	✓	✓	✓
			2	✓	✓	✓	✓	✓
			3	✓	✓	✓	✓	✓
			4					