

Stony Brook University iSTEM Engineering Teaching Labs Curriculum Alignment for Middle School						
Core Curriculum		Key Idea	Performance Indicator	Strobe Light	Home Security	Night Light LED
<b>STANDARD 1: Analysis, Inquiry, and Design</b>						
	Mathematical Analysis	1		✓	✓	✓
		2		✓	✓	✓
		3		✓	✓	✓
	Scientific Inquiry	1		✓	✓	✓
		2		✓	✓	✓
		3		✓	✓	✓
	Engineering Design	1		✓	✓	✓
<b>STANDARD 2: Information Systems</b>						
		1		✓	✓	✓
		2		✓	✓	✓
		3		✓	✓	✓
<b>STANDARD 4: Science- The Physical Setting</b>						
		1	1.1			
		2	2.1			
			2.2			
		3	3.1 a	✓	✓	✓
			3.2			
			3.3g	✓	✓	✓
		4	4.1			
			4.2a	✓	✓	✓
			4.2d			
			4.3 a	✓	✓	✓
			4.4 a	✓		
			4.4c			
			4.4 d	✓	✓	✓
			4.4 e	✓	✓	✓
			4.5 a	✓	✓	✓
		5	4.5 b	✓	✓	✓
			5.1			
			5.2b	✓	✓	✓
<b>STANDARD 6: Interconnectedness</b>						
		1		✓	✓	✓
		2		✓	✓	✓
		3		✓	✓	✓
		4				
		5		✓	✓	✓
		6		✓	✓	✓
<b>STANDARD 7: Interdisciplinary Problem Solving</b>						
		1		✓	✓	✓
		2		✓	✓	✓
<b>NYS P-12 Science Learning Standards</b>						
				Light Strobe	Home Security	Night Light LED

Structure and Properties of Matter	MS-PS1	1			
& Chemical Reactions		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			