

Stony Brook University I-STEM Engineering Teaching Labs Curriculum Alignment for High School					
<b>NYS P-12 Science Learning Standards and NGSS</b>					
			Light Strobe	Home Security	
Structure and Properties of Matter & Chemical Reactions	HS-PS1	1			
		2			
		3			
		4			
		5	✓	✓	
		6			
		7			
		8			
		9			
		10			
		11			
		12			
Forces and Interactions	HS-PS2	1			
		2			
		3			
		4			
		5			
		6	✓	✓	
Energy	HS-PS3	1			
		2			
		3	✓	✓	
		4			
		5	✓	✓	
		6	✓	✓	
Waves and Electromagnetic Radiation	HS-PS4	1			
		2	✓	✓	
		3			
		4			
		5	✓	✓	
		6			
<b>NYS Regents Physics Curriculum</b>					
		Key Idea	Performance Indicator	Light Strobe	Home Security
<b>STANDARD 1: Analysis, Inquiry, and Design</b>					
Mathematical Analysis		1		✓	✓
		2		✓	✓
		3		✓	✓
Scientific Inquiry		1		✓	✓
		2		✓	✓

		3		✓	✓
Engineering Design		1		✓	✓
STANDARD 2: Information Systems					
		1		✓	✓
		2		✓	✓
		3		✓	✓
STANDARD 4: The Physical Setting					
	4	4.1		✓	✓
		4.1a		✓	✓
		4.1b		✓	✓
		4.1j		✓	✓
		4.1l		✓	✓
		4.1m		✓	✓
		4.1n		✓	✓
		4.1o		✓	✓
		4.1p		✓	✓
		4.3b		✓	
STANDARD 6: Interconnectedness					
	1			✓	✓
	2			✓	✓
	3			✓	✓
	4				
	5			✓	✓
	6			✓	✓
STANDARD 7: Interdisciplinary Problem Solving					
	1			✓	✓
	2			✓	✓
AP Physics 1					
Content Area 9: DC Circuits	1	B		✓	✓
		E		✓	✓
AP Physics 2					
Content Area 3: Electric Force, Field, and Potential	1	B		✓	✓
Content Area 4: Electric Circuits	1	B		✓	✓
		E		✓	✓
	4	B		✓	✓
		C		✓	✓
		E		✓	✓

Content Area 6: Geometric and Physical Optics	6	A			
		E			