

IEEE EDUCATION ACTIVITIES TEACHER IN-SERVICE PROGRAM LESSON PLANS														
LESSON FOCUS	AGES	GRADES												
		K	1	2	3	4	5	6	7	8	9	10	11	12
1 Electric Motors: principles and everyday uses.	10-14						X	X	X	X	X			
2 Light and Spectrometry.	10-14						X	X	X	X	X			
3 Simple machines: their principles and uses.	4-9	X	X	X	X	X								
4 Random error and systematic error.	10-14						X	X	X	X	X			
5 Develop a robot arm using common materials.	10-18						X	X	X	X	X	X	X	X
6 Develop a working model of a nail clipper.	10-18						X	X	X	X	X	X	X	X
7 Demonstrate Ohm's Law with digital multimeter.	10-18						X	X	X	X	X	X	X	X
8 Demonstrate conductors and insulators.	8-14				X	X	X	X	X	X	X			
9 Demonstrate how switches control circuits.	8-14				X	X	X	X	X	X	X			
10 Demonstrate how two switches interact in an electrical circuit such as that used to sound a buzzer.	8-14				X	X	X	X	X	X	X			
11 Evaluate, design, and build a better candy bag.	8-14				X	X	X	X	X	X	X			
12 Demonstrate parallel and serial circuit design.	8-14				X	X	X	X	X	X	X			
13 Demonstrate the concept of solid conductors.	8-14				X	X	X	X	X	X	X			
14 Demonstrate electrical circuits in a flashlight.	7-11			X	X	X	X	X						
15 Demonstrate rotational equilibrium concepts.	11-18							X	X	X	X	X	X	X