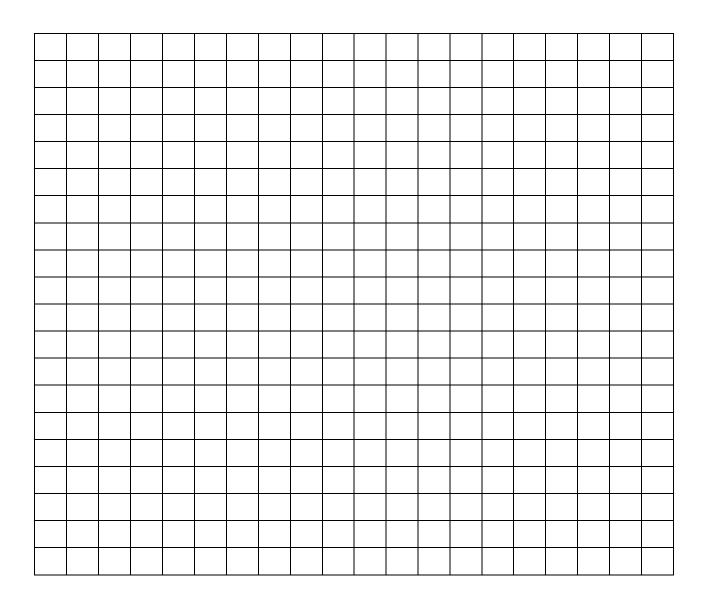
Lesson 9: How Does The Voltage in a Circuit Affect the Brightn	ess of a Light?
Activity 9.1 Safety Do not leave the lights on longer than is required as it will deplete the batteries. Purpose Conduct an experiment with your partner that measures the change light output as read on a lux meter of a light bulb, as you add more batteries.	Your Progress:
Word Wall: Electrical Energy:	
What is the dependent variable (measured/ responding) for this experiment? What are the controlled variables (stays the same) of this experiment? (State at lea	ast 3)

Name ______ Period _____ Date _____

Data

Number of batteries	Voltage	Trial 1	Trial 2	Trial 3	Average
Zero	0 Volts				
One	1.5 Volts				
Two	3.0 Volts				
Three	4.5 Volts				
Four	6.0 Volts				

Use this grid to create a graph of your data.



What happens to the amount of light energy coming from the light bulb as you increase the voltage in the circuit? Explain why you think this happens.