## SE: Energy and Power Activity

Energy:	Power:	
$E(J) = P(W) \times t(s)$	Watts = Amps x Volts	
joules = watts × seconds	1000mA = 1amp	
Watt Hours (Energy):		
$Wh = P(W) \times t(h)$		
<ol> <li>Using the kilowatt meter measure the volts, amps and watts.         How to use the Kilowatt Meter:         <a href="http://www.youtube.com/watch?v=1l_mo1jwh8Y">http://www.youtube.com/watch?v=1l_mo1jwh8Y</a>         Choose 2 items in or near the shops to measure:</li> </ol>		
Item one:		
Voltage		
Current		
(Power)Watts		
Calculate Energy for 1 min of use (Joules)		
Calculate Watt Hours for 1 min of use (Wh)		
Item two:		
Voltage		
Current		
(Power)Watts		
Calculate Energy for 1 min of use (Jo	ules)	

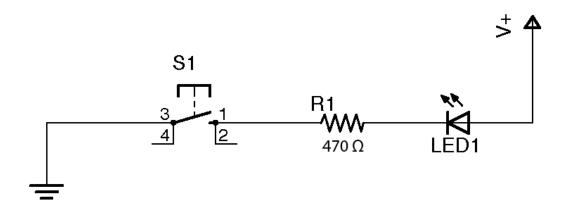
(over)

Calculate Watt Hours for 1 min of use (Wh) \_\_\_

## 2. Build the following circuit, take measurements, and answer the questions.

## How to use the Multimeter:

http://sites.lwhs.org/techarts/2013/08/01/multimeter/



	Voltage
	Current
	(Power)Watts
Calculate Energy for 1 min of use (Joules)	
	Calculate Watt Hours for 1 min of use (Wh)

**Extra Time?** Build another circuit, using many lights, and take the same measurements.