| Ī | emon | Batteries | Wor | ksheet |
|---|--------------|------------------|------|--------|
| | ACIII () III | Dalleties | **** | KSHEEL |

What is the power output of your lemon battery?

- 1. Using your multimeter, what is the voltage of your lemon battery in *volts* (V)?
- 2. Using your multimeter, what is the current that your lemon battery produces in *amps* (A)?
- 3. Using the following equation, what is the power output of your lemon battery (it will be in *watts*, W)?

voltage * current = power

How many lemon batteries does it take to....?

- 1. Link your group's batteries with other group's batteries. What is the best way to link the batteries together so that they produce the most power?
- 2. How many lemon batteries are needed to light up an LED?
- 3. A cell phone uses about 1.5 W when in talk mode. How many lemon batteries would we need to power a cell phone?
- 4. A laptop uses around 25 W when in use. How many lemon batteries do we need to power that?
- 5. The Chevy Volt batteries can supply 30,000 W. How many lemon batteries would we need to deliver that?