



POTATO BATTERIES
Notes and Observations Worksheet

Name _____

Measuring the Voltage of a Single battery

Potato Battery

Positive Electrode	Negative Electrode	Measured Voltage
Copper (+)	Zinc (-)	
Copper (+)	Aluminum (-)	
Aluminum (+)	Zinc (-)	

Observation Questions:

**What happens if you use the same metal for both electrodes (ex. both are copper)?
Do you get a voltage difference? Why or why not?**

Which two metals produce “best battery” (highest voltage)?

Was one potato enough to light up an LED?

Series vs. Parallel Circuits

Use the two metals which make the best battery. What happens to the voltage when you connect two potatoes in series? Was this enough to light up the LED? What about 3 or 4?

What if you connect two potatoes in parallel? How does the voltage compare to that of a single potato?

Further Exploration:

Describe any additional experiments you tried. What did you learn from these experiments?