

Name _____

To complete this data sheet, you need to watch the video at
https://preparatorychemistry.com/Bishop_Potato_Battery_Experiment2.html.

Voltaic Cells Results

METALS USED	VOLTAGE PRODUCED
Zinc (Zn) and copper (Cu)	
Tin (Sn) and copper (Cu)	
Magnesium (Mg) and copper (Cu)	

CELL	VOLTAGE	CURRENT (amps)
Two Zn/Cu cells in series		
Two Zn/Cu cells in parallel		

QUESTIONS

1. Using the voltages measured for each of the potato cells in part A, rank the four metals (copper, magnesium, tin, and zinc) in order from the best reducing agent (most willing to lose electrons) to the poorest reducing agent.
2. Which increased when the two potato cells were attached in series, voltage or current? Explain why.
3. Which increased when the two potato cells were attached in parallel, voltage or current? Explain why.