

Name:

Date:

TA:

Activity 8.1A: A Penny for a Battery Guided Worksheet

Purpose: To build an electrochemical cell from common household materials.

Question: How does stacking electrochemical cells affect the amount of voltage generated?

Safety:

Hypothesis:

Materials:

- Pennies
- Black coloured wires with alligator clip
- Scissors
- Red coloured wires with alligator clip
- Voltmeter
- Tin Foil
- Paper towel (be mindful of how much you use!)

Procedure: See the procedure found on the THSS website

Observations:

Number of Cells	Voltage (V)
1 (with the paper towel dry)	
1 (with the paper towel dampened with vinegar)	
2	
3	
4	
5	
6	
7	

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Analysis Questions:

1. a) How did the voltmeter reading change when comparing a dry paper towel to a wet paper towel between?

b) What do you think caused the difference?

2. What happened to the voltage reading as you added layers? Why?

3. Is this a wet cell or a dry cell? _____

Conclusion:
