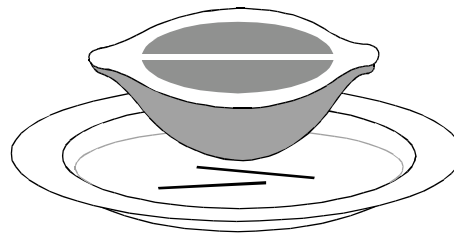


PHYZLAB SPRINGBOARD: THE LEMON BATTERY



• Apparatus •

- ___ lemon half or wedge
- ___ 2 galvanized (zinc-coated) nails
- ___ plate or bowl
- ___ your ingenuity and resourcefulness



• Information •

1. Read the PhyGuide on batteries and current.
2. What were the critical ingredient(s) of Galvani's and Volta's batteries?

• Task •

3. Use the apparatus to design a battery that will register 0.5V or more. When you think you have the correct design, ask the instructor to make a voltage measurement. When you achieve success, describe your successful design.

V = _____

• Diagrams •

4. Draw a non-working and a working design. Label each diagram.

• Challenge •

5. What is the highest voltage you can attain? Hint: How did Volta achieve high voltages?

V = _____

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