Capacitor-Aided System for Teaching and Learning Electricity (CASTLE)

STUDENT LEARNING OBJECTIVES

After completing Section 1 each student will be able to:

- Indicate that bulbs will not light if there is a break in a continuous closed loop.
- Identify loops in which bulbs will and will not light by inspecting diagrams.
- Provide evidence based on compass observations supporting a one-way direction of flow in a closed loop.
- Using words or arrows, describe the direction of conventional charge flow in a circuit.
- Define a circuit as an unbroken loop of conductors that forms a continuous conducting path.
- Describe the differences observed when testing conductors and insulators.
- Explain how conductors and insulators relate to a "continuous conducting path".
- · Trace the conducting path through a light bulb.

After completing Section 2, each student will be able to:

- Identify bulb filaments as parts of circuits that resist charge flow.
- · Use bulb brightness and compass deflection as indicators of flow rate.
- Distinguish flow rate (amount/sec through) from speed (distance/sec traveled).
- Use representations to show flow rate and bulb brightness on circuit diagrams.
- Explain how adding series/parallel bulbs will raise/lower "overall" resistance.
- Describe evidence that connecting wires have much less resistance than bulbs.

After completing Section 3, each student will be able to:

- Draw schematic diagrams of simple circuits.
- Identify the parts of a capacitor (two metal plates separated by an insulator).
- Draw arrows to indicate direction of charge flow during capacitor charging and discharging.
- · Identify the places in a circuit where mobile charge originates.
- Describe both a battery and a Genecon as a pump for moving charge in a circuit.
- Compare the similarities and differences between an air capacitor and a capacitor in an electric circuit.
- Explain that the Genecon requires an external source of energy for pumping while a battery contains an internal source of stored chemical energy.

After completing Section 4, each student will be able to:

- Cite evidence that the mobile charge in a capacitor plate can be compressed.
- Identify high/low "electric pressure" with compression/depletion of charge.
- Cite evidence that a battery creates HIGH and LOW pressure in its terminals.
- Explain why electric pressure is uniform in any wire, and in connected wires.
- Explain how a battery and wires create a pressure difference that lights a bulb.
- Analyze simple circuits by color-coding conducting parts to represent electric pressure.

Electricity Castle Section 3 Answers

Mike Jess

Electricity Castle Section 3 Answers:

Federal Register ,1997-11 A Voyage of Exploration ,1986 Electricity ,1919 The Oil & Colour Trades

Journal ,1921 Bookseller's catalogues Thornton J. and son,1883 Locomotive Railway Carriage and Wagon Review

,1925 Popular Electricity and the World's Advance ,1912 Popular Electricity and the World's Advocate ,1912

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