

# 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

**Sabine Zange**



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