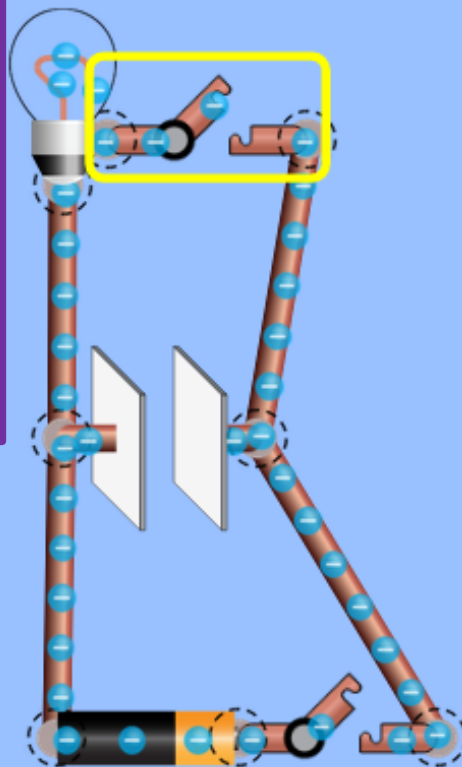


Create the circuit shown, including battery resistance of 1 ohm. Try closing and opening the switches – one and then the other.



Show Current
● Electrons ←
○ Conventional →

Labels
 Values
 Stopwatch

Voltmeter Ammeters

Voltage Chart Current Chart

Advanced

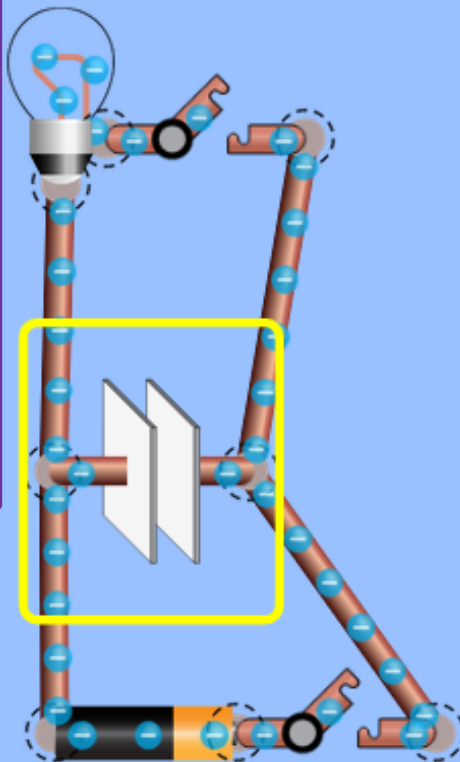
Wire Resistivity
tiny lots

Source Resistance
0 Ω 10 Ω

The switch is open.



Try changing the capacitance. Note the “discharge” button – try it. Also try adjusting the voltage of battery and resistance of the bulb.



Show Current
● Electrons ←
○ Conventional →

Labels
 Values
 Stopwatch

Voltmeter Ammeters

Voltage Chart Current Chart

Advanced

Wire Resistivity
tiny lots

Source Resistance
0 Ω 10 Ω

Capacitance 0.10 F

⚡ ⚡

Wire
Battery
AC Voltage
Light Bulb
Resistor
CAPACITOR
INDUCTOR
Switch

⚡

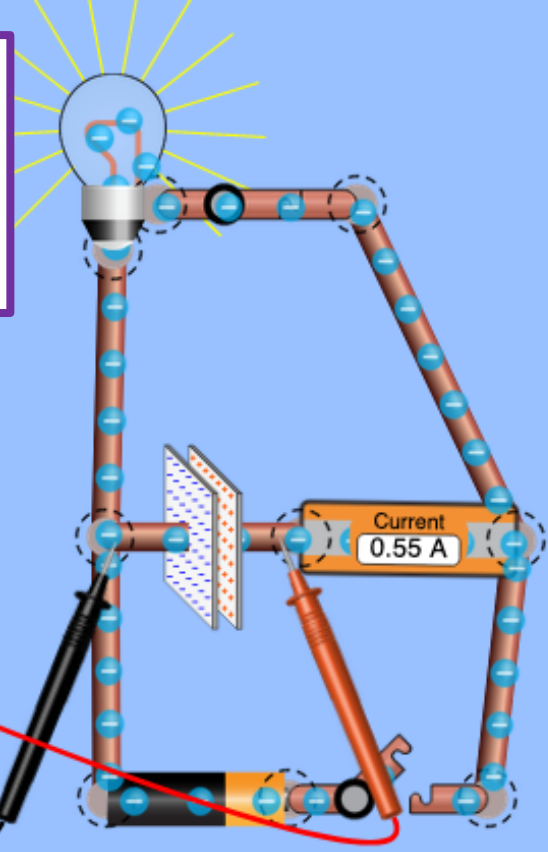
+

▶ ⏸ ↻

Add meters to measure the voltage and current of the capacitor. Repeat the previous experiments.

- Light Bulb
- Resistor
- CAPACITOR
- INDUCTOR
- Switch

Voltage
5.49 V



Show Current
 Electrons
 Conventional

Labels
 Values
 Stopwatch

Voltmeter Ammeters

Voltage Chart Current Chart

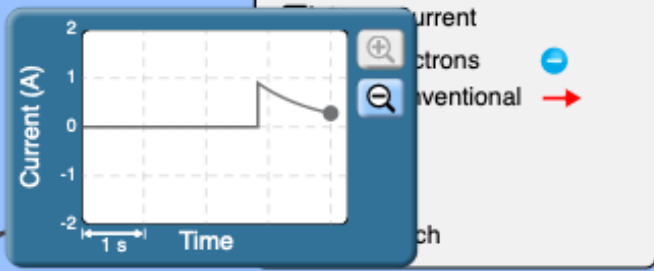
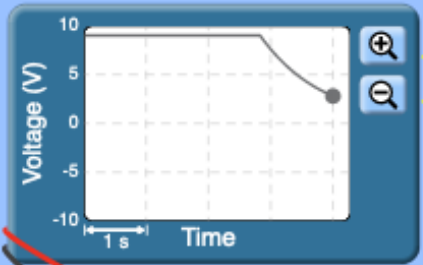
Advanced

Wire Resistivity
tiny lots

Source Resistance
0 Ω 10 Ω

Tap circuit element to edit.

Wire
 Battery
 AC Voltage
 Light Bulb
 Resistor
 CAPACITOR
 INDUCTOR
 Switch

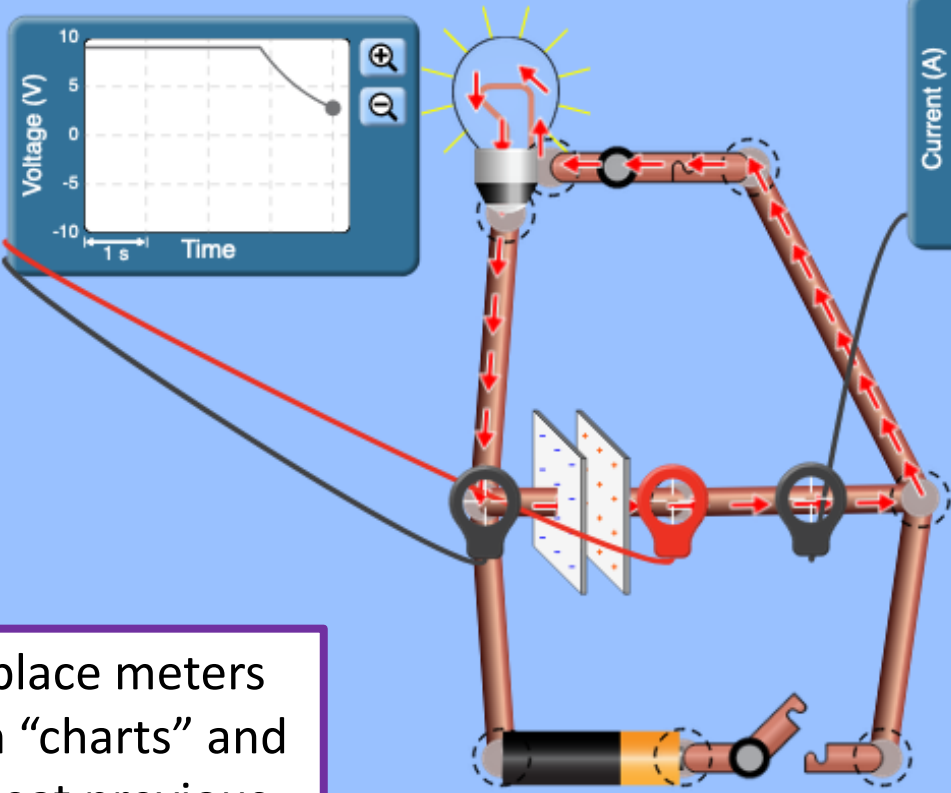


Voltmeter
 Ammeters

 Voltage Chart Current Chart

Advanced
 Wire Resistivity: tiny ————— lots
 Source Resistance: 0 Ω ————— 10 Ω

Replace meters with "charts" and repeat previous experiments.



Tap circuit element to edit.