

## Capacitors in series and parallel

### Introduction

In this practical activity learners will use their knowledge of the combined capacitance of a number of capacitors to determine the capacitance of an unknown capacitor. This activity should follow the theory of capacitors in series and parallel and of exponential decay.

### Aim

- To create a number of series and parallel configurations of capacitors
- To calculate the combined capacitance for each configuration
- To observe the change in time to discharge for differing configurations
- To collect data to allow the capacitance of an unknown capacitor to be determined.

### Intended class time

- 60 to 90 minutes

### Links to Specification

#### Physics A

- 6.1.1(c) total capacitance of two or more capacitors in series
- 6.1.1(d) total capacitance of two or more capacitors in parallel
- 6.1.1(e)(i) analysis of circuits containing capacitors, including resistors
- 6.1.2(a) p.d. – charge graph for a capacitor; energy stored is area under graph
- 6.1.2(b) energy stored by a capacitor
- 6.1.2(c) uses of capacitors as storage of energy
- 6.1.3(a)(i) charging and discharging capacitor through a resistor
- 6.1.3(b) time constant of a capacitor–resistor circuit:  $\tau = CR$
- 6.1.3(c) equations of the form  $x = x_0 e^{-\frac{t}{CR}}$  and  $x = x_0 (1 - e^{-\frac{t}{CR}})$  for capacitor-resistor circuits.

#### Physics B

- 5.1.1(a)(i) capacitance as the ratio  $C = \frac{Q}{V}$
- 5.1.1(ii) the energy on a capacitor  $E = \frac{1}{2} QV$
- 5.1.1(a)(iii) the exponential form of the decay of charge on a capacitor as due to the rate of removal of charge being proportional to the charge remaining.  $\frac{dQ}{dt} = -\frac{Q}{RC}$
- 5.1.1(b)(i) for a capacitor: the term: time constant  $\tau$
- 5.1.1(c)(i) solving equations of the form  $\frac{\Delta N}{\Delta t} = -\lambda N$  by iterative numerical or graphical methods.

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**KJ Lindholm-Leary**



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web in 1987 dr ben carson travels to ulm germany to meet a couple peter and augusta rausch who have twins conjoined at  
the back of their heads dr carson believes he might be able to successfully separate them but realizes that he also risks losing  
one or both of them after explaining the risk and despite that fact ben agrees to operate