## Investigating charging and discharging capacitors

### Introduction

This practical activity supports the theory on charging and discharging capacitors.

### A. berry

- To observe the pattern of changing and discharging a capacitor.
- To take measurements to allow confirmation of exponential formulae learned.

#### Intended class time

60 to 90 minutes

### Links to Specification

### Physics A.

$$G = \frac{Q}{V}$$

- 6.1.1(a) capacitance: V ; the unit farad
- 6.1.1(b) charging and discharging of a capacitor or capacitor plates with reference to the flow of electrons
- 6.1.1(e)(i) analysis of circuits containing capacitors, including resistors
- 6.1.3(a)(i) charging and discharging capacitor through a resistor
- 6.1.3(a)(ii) techniques and procedures to investigate the charge and the discharge of a capacitor using both meters and data-loggers
- 6.1.3(b) time constant of a capacitor-resistor circuit, r = RC
- 6.1.3(c) equations of the form x = x<sub>0</sub> e<sup>-\frac{x\_0}{x\_0}</sup> and x = x<sub>0</sub> (1-e<sup>-\frac{x\_0}{x\_0}</sup>) for capacitor-resistor circuits
- 6.1.3(e) exponential decay graph; constant-ratio property of such a graph.

## Physics B

$$C = \frac{Q}{V}$$

• 5.1 1(a)(ii) capacitance as the ratio

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 | GR | PC

- 5.1.1(b)(i) for a capacitor: the term: time constant F
- 5.1.1(c)(ii) solving equations of the form <sup>(Δt)</sup>/<sub>(Δt)</sub> = -λN by iterative numerical or graphical methods
- 5.1.1(c)(iii) calculating time constant λ of a capacitor circuit from data; r = RC;
   O = O<sub>V</sub> e<sup>-conc</sup>

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**R Sandford** 

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