Conceptual

- ☐ Make a circuit diagram to show how you light a bulb – draw components as necessary
- ☐ Draw the equivalent circuit schematic diagram.

Basic Make

- ☐ Make a light bulb turn on
  - Use a breadboard and appropriate connectors
- ☐ Make a drawing of how a breadboard is wired
- ☐ Make a measurement of voltage

Advanced/Extended Make

- ☐ Make your diagrams using Fritzing
- ☐ Make a measurement of current
- ☐ Light more than one light bulb
  - Find two ways to light the bulbs
  - Make series and parallel schematic diagrams

Equipment

- ☐ Computer with access to Fritzing
- ☐ Digital Multi Meter (DMM)
- ☐ Circuit components: batteries, bulbs etc
- ☐ Crimper tools

Objective

Physics Concepts

- ☐ Electrical Circuit
- ☐ Voltage, Current and Resistance

Experimental analysis

- ☐ DMM – continuity

Technology Concepts

- ☐ Schematic symbols
- ☐ Use of crimpers