Edexcel International GCSE Physics 4PH1 Learning Plan

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| **Unit: 2 Electricity** | | **Chapter: 8. Electrical Resistance** | | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 2: Electricity**  **c)** Energy and voltage in circuits | **2.8** understand how the current in a series circuit depends on the applied voltage and the number and nature of other components  **2.9** describe how current varies with voltage in wires, resistors, metal filament lamps and diodes, and how this can be investigated experimentally  **2.10** describe the qualitative effect of changing resistance on the current in a circuit  **2.11** describe the qualitative variation of resistance of light-dependent resistors (LDRs) with illumination and of thermistors with temperature  **2.19** calculate the currents, voltages and resistances of two resistive components connected in a series circuit | Video and Powerpoint:  5.4 Electrical Quantities (2)  5.5 Electric Circuits  Textbook pages:  Page 75 – Resistance  Page 77 – Experiment to investigate how current varies with voltage for different components  Page 79 – Using resistance  Page 80 – Special resistors | Page 83  Questions (1) to (3)  Chapter 8 Textbook Answers (PDF)  Chapter 8 - exam question - pdf  Chapter 8 - exam question mark scheme – pdf  Chapter 8 - Talking paper video | |

Videos – [www.igcsesciencecourses.com](http://www.igcsesciencecourses.com)

Textbook Ref: Edexcel International GCSE (9-1) Physics Student Book - Pearson (Arnold, Johnson, Woolley))