Edexcel International GCSE Physics 4PH1 Learning Plan

|  |  |  |
| --- | --- | --- |
|  **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 – ResistancePage 77 – Experiment to investigate how current varies with voltage for different componentsPage 79 – Using resistancePage 80 – Special resistors | Page 83Questions (1) to (3)Chapter 8 Textbook Answers (PDF)Chapter 8 - exam question - pdfChapter 8 - exam question mark scheme – pdfChapter 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))