Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section B8: Electric Charge** | | |
| Specification | Resources | Assessment |
| 2.19 identify common materials which are electrical conductors or insulators, including metals and plastics  2.20 describe experiments to investigate how insulating materials can be charged by friction  2.21 explain that positive and negative electrostatic charges are produced on materials by the loss and gain of electrons  2.22 understand that there are forces of attraction between unlike charges and forces of repulsion between like charges  2.23 explain electrostatic phenomena in terms of the movement of electrons  2.24 explain the potential dangers of electrostatic charges, eg when fuelling aircraft and tankers  2.25 explain some uses of electrostatic charges, eg in photocopiers and inkjet printers. | Video: Physics Section 5 – Lesson 2 - Electrical Quantities 1 – Start to 5:07  Physics Section 5 – Lesson 3 – Electrical Quantities 1 (supplement)  Powerpoint: Physics 26 – Electrical Quantities 1 – Slides 3 to 14  Physics 27 – Electrical Quantities 1 Supplement.  Textbook: Section B8 - Electric charge  Page 66 – charges within an atom  Page 66 – Charging materials by friction  Page 67 – Forces between charges  Page 68 – Forces between charged and uncharged objects  Page 69 – The gold leaf electroscope  Page 70 – Uses of static electricity  Page 72 – Problems with static electricity  DVD Revision check list | Textbook  Questions on page 73  Section B8 - Textbook Answers (PDF)  DVD Multiple choice test  Section B8 – Exam question - pdf  Section B8 – Question Mark Scheme - pdf  Talking paper video – Section B8 |

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Physics Student Book - Pearson

DVD Video Clips – see resource DVD in textbook.