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 5:07Physics Section 5 – Lesson 3 – Electrical Quantities 1 (supplement)Powerpoint: Physics 26 – Electrical Quantities 1 – Slides 3 to 14Physics 27 – Electrical Quantities 1 Supplement.Textbook: Section B8 - Electric chargePage 66 – charges within an atomPage 66 – Charging materials by frictionPage 67 – Forces between chargesPage 68 – Forces between charged and uncharged objectsPage 69 – The gold leaf electroscopePage 70 – Uses of static electricityPage 72 – Problems with static electricityDVD Revision check list | TextbookQuestions on page 73Section B8 - Textbook Answers (PDF)DVD Multiple choice testSection B8 – Exam question - pdfSection B8 – Question Mark Scheme - pdfTalking 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.