Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section F21: Magnetism and Electromagnetism** | | |
| Specification | Resources | Assessment |
| **6.2 understand that magnets repel and attract other magnets and attract magnetic substances**  **6.3 describe the properties of magnetically hard and soft materials**  6.4 understand the term ‘magnetic field line’  **6.5 understand that magnetism is induced in some materials when they are placed in a magnetic field**  6.6 describe experiments to investigate the magnetic field pattern for a permanent bar magnet and that between two bar magnets  6.7 describe how to use two permanent magnets to produce a uniform magnetic field pattern.  6.8 understand that an electric current in a conductor produces a magnetic field round it  **6.9 describe the construction of electromagnets**  **6.10 sketch and recognise magnetic field patterns for a straight wire, a flat circular coil and a solenoid when each is carrying a current** | Video: Physics Section 5 – lesson 1 – Simple phenomena of magnetism.  Powerpoint: Physics 25 – Simple phenomena of magnetism.  Textbook: Chapter 21: Magnetism and Electromagnetism  Page 180 – magnetism and magnetic materials.  Page 180 – Magnetic fields  Page 182 – Electromagnetism  Page 183 – Using electromagnets  Page 186 – End of Chapter Checklist  Edexcel iGCSE Physics Student Checklist Section F21.doc  DVD Revision check list | Textbook Page 186 – Questions 1 to 3.  Textbook Answers (PDF)  DVD Multiple choice test  Talking paper – Edexcel Physics Section F21 – Magnetism and Electromagnetism  Chapter F21 Exam Question – pdf  Chapter F21 Exam Question mark scheme - pdf |

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Physics Student Book - Pearson

DVD Video Clips – see resource DVD in textbook.