Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section A2: Forces and Shape** | | |
| Specification | Resources | Assessment |
| Express a force as a push or pull of one body on another.  • Identify various types of force (e.g. gravitational, electrostatic, etc.).  • Distinguish between vector and scalar quantities.  • Appreciate the vector nature of a force.  • Add forces that act along a line.  • Understand that friction is a force that opposes motion.  • Describe how extension varies with applied force for helical springs, metal wires and rubber bands.  • Recall that the initial linear region of a force–extension graph is associated with Hooke’s law.  • Associate elastic behaviour with the ability of a material to recover its original shape after the forces causing deformation have been removed. | Video: Section 1 General Physics – Lesson 5 – Forces 1; Lesson 7 – Forces 3 (scalars and vectors).  Powerpoint: 5 – Forces 1; 7 – Forces 3 (scalars and vectors).  Textbook:  Page 12 All sorts of forces  Page 15 More than one force  Page 17 Investigating friction  Page 18 Temporary changes of shape  Page 19 Springs and wires  Page 20 Elastic bands  DVD Revision check list | Textbook  Questions Pages 21 – 22  Section A2 - Textbook Answers (Chapter 2) pdf  DVD Multiple choice test  Section A2 Exam Question pdf  Section A2 Exam Question Mark Scheme pdf  Talking paper: Section A2 Forces and Shape |

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Physics Student Book - Pearson

DVD Video Clips – see resource DVD in textbook.