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 forcesPage 15 More than one forcePage 17 Investigating frictionPage 18 Temporary changes of shapePage 19 Springs and wiresPage 20 Elastic bandsDVD Revision check list | TextbookQuestions Pages 21 – 22Section A2 - Textbook Answers (Chapter 2) pdfDVD Multiple choice testSection A2 Exam Question pdfSection A2 Exam Question Mark Scheme pdfTalking 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.