Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section A3: Forces and Movement** |
| Specification | Resources | Assessment |
| • Recall and use the relationship between unbalanced force, mass and acceleration: force = mass × acceleration F = m × a • Recall and use the relationship between weight, mass and acceleration due to gravity: weight = mass × acceleration due to gravity W = m × g • Describe the forces acting on falling objects, and explain why falling objects reach a terminal velocity. • Describe the factors affecting vehicle stopping distance, including speed, mass, road condition and reaction time.  | Video: Section 1 General Physics – Lesson 3 – Mass & Weight; Lesson 5 – Forces 1Powerpoint: 3 – Mass & Weight; 5 – Forces 1Textbook:Page 23 Force, mass and accelerationPage 24 Investigating force, mass and accelerationDVD – Exam question 1 (+ answer)DVD – Exam question 2 (+answer)DVD Video clip – Forces and MovementPage 26 Friction and brakingDVD Video clip – Stopping distancePage 28 The acceleration due to gravityDVD Video clip – Hammer and feather dropped on the MoonPage 29 WeightPage 29 Air resistance and terminal velocityDVD Video clip – Terminal velocityDVD Revision check list | TextbookQuestions Pages 32 – 33Section A3 - Textbook Answers (Chapter 3) pdfDVD Multiple choice testTalking Paper video – Section A3 Forces and Movement (mp4)Section A3 Exam Question (pdf)Section A3 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.