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 1  Powerpoint: 3 – Mass & Weight; 5 – Forces 1  Textbook:  Page 23 Force, mass and acceleration  Page 24 Investigating force, mass and acceleration  DVD – Exam question 1 (+ answer)  DVD – Exam question 2 (+answer)  DVD Video clip – Forces and Movement  Page 26 Friction and braking  DVD Video clip – Stopping distance  Page 28 The acceleration due to gravity  DVD Video clip – Hammer and feather dropped on the Moon  Page 29 Weight  Page 29 Air resistance and terminal velocity  DVD Video clip – Terminal velocity  DVD Revision check list | Textbook  Questions Pages 32 – 33  Section A3 - Textbook Answers (Chapter 3) pdf  DVD Multiple choice test  Talking 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.