Edexcel International GCSE Physics 4PH1 Learning Plan

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|  **Unit: 1 Forces and Motion** | **Chapter: 3. Forces and Movement** | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment |
| **Section 1: Forces and Motion****c)** Forces, movement, shape and momentum | **1.17** know and use the relationship between unbalanced force, mass and acceleration: force = mass × accelerationF = m × a**1.18** know and use the relationship between weight, mass and gravitational field strength: weight = mass × gravitational field strengthW = m × g**1.19** know that the stopping distance of a vehicle is made up of the sum of the thinking distance and the braking distance**1.20** describe the factors affecting vehicle stopping distance including speed, mass, road condition and reaction time**1.21** describe the forces acting on falling objects and explain why falling objects reach a terminal velocity. | Video and Powerpoint:1.3 Mass and Weight1.5 Forces 1 Textbook pages:Page 29 – Force, mass and accelerationPage 34 – WeightPage 35 – Air resistance and terminal velocity | Page 38 – 39Questions (1) to (10)Chapter 3 Textbook Answers (PDF)Chapter 3 - exam question - pdfChapter 3 - exam question mark scheme – pdfChapter 3 - Talking paper video  |

Videos – [www.igcsesciencecourses.com](http://www.igcsesciencecourses.com)

Textbook Ref: Edexcel International GCSE (9-1) Physics Student Book - Pearson (Arnold, Johnson, Woolley))