Edexcel International GCSE Physics 4PH1 Learning Plan

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| **Unit: 1 Forces and Motion** | | **Chapter: 4. Momentum** | | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 1: Forces and motion**  **c)** Forces, movement, shape and momentum | **1.25P know and use the relationship between momentum, mass and velocity:**  **momentum = mass × velocity**  **p = m × v**  **1.26P use the idea of momentum to explain safety features**  **1.27P use the conservation of momentum to calculate the mass, velocity or momentum of objects**  **1.28P use the relationship between force, change in momentum and time taken:**  **force = change in momentum/time taken**  **F = (mv-mu)/t**  **1.29P demonstrate an understanding of Newton’s third law.** | Video and Powerpoint:  1.12 Momentum  Textbook pages:  Page 40 – Momentum  Page 41 – Momentum and acceleration  Page 43 – Momentum and collisions  Page 45 – Car safety  Page 46 – Newton’s laws of motion | Page 47  Questions (1) to (4)  Chapter 4 Textbook Answers (PDF)  Chapter 4 - exam question - pdf  Chapter 4 - exam question mark scheme – pdf  Chapter 4 - 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))