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 – MomentumPage 41 – Momentum and accelerationPage 43 – Momentum and collisionsPage 45 – Car safetyPage 46 – Newton’s laws of motion | Page 47Questions (1) to (4)Chapter 4 Textbook Answers (PDF)Chapter 4 - exam question - pdfChapter 4 - exam question mark scheme – pdfChapter 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))