Edexcel International GCSE Physics 4PH1 Learning Plan

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|  **Unit: 1 Forces and Motion** | **Chapter: 5. The Turning Effect of Forces** | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment |
| **Section 1: Forces and Motion****c)** Forces, movement, shape and momentum | **1.30P know and use the relationship between the moment of a force and its distance from the pivot:****moment = force × perpendicular distance from the pivot****1.31P** **know that the weight of a body acts through its centre of gravity****1.32P use the principle of moments for a simple system of parallel forces acting in one plane****1.33P** **understand how the upward forces on a light beam, supported at its ends, vary with the position of a heavy object placed on the beam.** | Video and Powerpoint:1.2 Speed, velocity and acceleration1.6 Forces 2 – Moments1.7 Forces 3 – Centre of MassTextbook pages:Page 48 – Opening a doorPage 49 – The moment of a forcePage 50 – In balancePage 51 - Centre of GravityPage 53 – Forces on a beam | Page 54Questions (1) to (3)Unit QuestionsPage 55 – 57Questions (1) to (4)Chapter 5 Textbook Answers (PDF)Chapter 5 - exam question - pdfChapter 5 - exam question mark scheme – pdfChapter 5 - 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))