CiE iGCSE Physics 0625 Learning Plan

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| **Section 5: Forces 1** | | |
| Specification | Resources | Assessment |
| **Core**  Recognise that a force may produce a change in size and shape of a body  • Plot and interpret extension-load graphs and describe the associated experimental procedure  • Describe the ways in which a force may change the motion of a body  • Find the resultant of two or more forces acting along the same line  • Recognise that if there is no resultant force on a body it either remains at rest or continues at constant speed in a straight line  • Understand friction as the force between two surfaces which impedes motion and results in heating  • Recognise air resistance as a form of friction  **Supplement**  State Hooke’s Law and recall and use the expression F = k x, where k is the spring constant  • Recognise the significance of the ‘limit of proportionality’ for an extension-load graph  • Recall and use the relation between force, mass and acceleration (including the direction), F = ma  • Describe qualitatively motion in a circular path due to a perpendicular force | Video: Section 1 – General Physics – Lesson 5 – Forces 1  Powerpoint: Lesson 5 – Forces 1  Textbook  Page 36 Forces in balance  Page 38 Force, mass and acceleration  Page 40 Friction and braking  Page 60 Stretching and compressing | Textbook  Questions Pages 50-51: 5, 6, 12  Textbook Answers page 327  Talking Paper video – Section 5 Forces 1  Exam Q5 Forces 1 – pdf  Exam Q5 mark scheme - pdf |

Videos – www.igcsesciencecourses.com

Textbook Ref: Complete Physics for Cambridge iGCSE (Stephen Pople) - OUP

DVD Assessments – see resource DVD in textbook.