CiE iGCSE Physics 0625 Learning Plan

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| **Section 8: Energy**  |
| Specification | Resources | Assessment |
| **Core**Identify changes in kinetic, gravitational potential, chemical, elastic (strain), nuclear and internal energy that have occurred as a result of an event or process • Recognise that energy is transferred during events and processes, including examples of transfer by forces (mechanical working), by electrical currents (electrical working), by heating and by waves • Apply the principle of conservation of energy to simple examples**Supplement**Recall and use the expressions kinetic energy = ½mv2 and change in gravitational potential energy = mg∆h• Apply the principle of conservation of energy to examples involving multiple stages • Explain that in any event or process the energy tends to become more spread out among the objects and surroundings (dissipated) | Video: Section 1 – General Physics – Lesson 8 - EnergyPowerpoint: Lesson 8 - EnergyTextbook Page 78 Work and energyPage 80 Energy transformationPage 82 Calculating PE and KE | TextbookPage 79 Qs 1 to 5 Work and EnergyPage 81 Qs 1 to 3 Energy TransformationPage 83 Qs 1 to 4 Calculating PE and KE All answers Page 327DVD Diagnostic tests – 4.Forces and Energy + AnswersTalking Paper Video – Section 8Exam Q8 Energy – pdfExam Q8 Mark Scheme - pdf |

Videos – www.igcsesciencecourses.com

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

DVD Assessments – see resource DVD in textbook.