CiE iGCSE Physics 0625 Learning Plan

|  |  |  |
| --- | --- | --- |
| **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 - Energy  Powerpoint: Lesson 8 - Energy  Textbook  Page 78 Work and energy  Page 80 Energy transformation  Page 82 Calculating PE and KE | Textbook  Page 79 Qs 1 to 5 Work and Energy  Page 81 Qs 1 to 3 Energy Transformation  Page 83 Qs 1 to 4 Calculating PE and KE  All answers Page 327  DVD Diagnostic tests – 4.  Forces and Energy + Answers  Talking Paper Video – Section 8  Exam Q8 Energy – pdf  Exam 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.