CiE iGCSE Physics 0625 Learning Plan

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| **Section 9: Energy Resources**  |
| Specification | Resources | Assessment |
| **Core**Describe how electricity or other useful forms of energy may be obtained from: – chemical energy stored in fuel – water, including the energy stored in waves, in tides, and in water behind hydroelectric dams – geothermal resources – nuclear fission – heat and light from the Sun (solar cells and panels) – wind • Give advantages and disadvantages of each method in terms of renewability, cost, reliability, scale and environmental impact • Show a qualitative understanding of efficiency**Supplement**Understand that the Sun is the source of energy for all our energy resources except geothermal, nuclear and tidal • Show an understanding that energy is released by nuclear fusion in the Sun• Recall and use the equation: efficiency = useful energy output energy input × 100%• efficiency = useful power output Power input × 100% | Video: Section 1 – General Physics – Lesson 9 – Energy resourcesPowerpoint: Lesson 9 – Energy resourcesTextbook Page 84 Efficiency and powerPage 86 Energy for electricity (1)Page 88 Energy for electricity (2)Page 90 Energy resourcesPage 92 How the world gets its energy | TextbookPage 85 Qs 1 to 6. Efficiency and PowerPage 87 Qs 1 to 3. Energy for ElectricityPage 89 Qs 1 and 2. Energy for electricity (2)Page 91 Qs 1 to 9. Energy resources.All answers on Page 328Pages 94-95 Forces and Energy – Further Questions.(also on DVD)All answers on Page 328Talking Paper – Section 9 – Energy ResourcesExam Q9 Energy Resources – pdfExam Q9 Energy Resources Mark Scheme - pdf |

Videos – www.igcsesciencecourses.com

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

DVD Assessments – see resource DVD in textbook.