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 resources  Powerpoint: Lesson 9 – Energy resources  Textbook  Page 84 Efficiency and power  Page 86 Energy for electricity (1)  Page 88 Energy for electricity (2)  Page 90 Energy resources  Page 92 How the world gets its energy | Textbook  Page 85 Qs 1 to 6. Efficiency and Power  Page 87 Qs 1 to 3. Energy for Electricity  Page 89 Qs 1 and 2. Energy for electricity (2)  Page 91 Qs 1 to 9. Energy resources.  All answers on Page 328  Pages 94-95 Forces and Energy – Further Questions.(also on DVD)  All answers on Page 328  Talking Paper – Section 9 – Energy Resources  Exam Q9 Energy Resources – pdf  Exam 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.