CiE iGCSE Physics 0625 Learning Plan

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| **Section 17: General Wave Properties** | | |
| Specification | Resources | Assessment |
| **Core**  Demonstrate understanding that waves transfer energy without transferring matter  • Describe what is meant by wave motion as illustrated by vibration in ropes and springs and by experiments using water waves  • Use the term wavefront  • Give the meaning of speed, frequency, wavelength and amplitude  • Distinguish between transverse and longitudinal waves and give suitable examples  • Describe how waves can undergo: – reflection at a plane surface – refraction due to a change of speed – diffraction through a narrow gap  • Describe the use of water waves to demonstrate reflection, refraction and diffraction  **Supplement**   * Recall and use the equation v = f λ * Describe how wavelength and gap size affects diffraction through a gap   • Describe how wavelength affects diffraction at an edge | Video: Physics – Section 3 – Properties of Waves – Lesson 1 – General wave properties  Powerpoint: Physics 17 – General Wave Properties  Textbook  Pages 124-125 Transverse and Longitudinal Waves  Pages 126-127 Wave effects  Section 17 Checklist.doc | Textbook  Page 125. Question 1  Page 127. Questions 1 and 2  Answers – Page 328 to 329  Talking paper – CiE Physics Section 17 – General Wave Properties  Section 17 Exam Question –. (pdf)  Section 17 Exam Question – Mark Scheme. (pdf) |

Videos – www.igcsesciencecourses.com

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

DVD Assessments – see resource DVD in textbook.