CiE iGCSE Physics 0625 Learning Plan

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| **Section 20: The Electromagnetic Spectrum** | | |
| Specification | Resources | Assessment |
| **Core**  •Give a qualitative account of the dispersion of light as shown by the action on light of a glass prism including the seven colours of the spectrum in their correct order  Describe the main features of the electromagnetic spectrum in order of wavelength  • State that all e.m. waves travel with the same high speed in a vacuum  • Describe typical properties and uses of radiations in all the different regions of the electromagnetic spectrum including: – radio and television communications (radio waves) – satellite television and telephones (microwaves) – electrical appliances, remote controllers for televisions and intruder alarms (infra-red) – medicine and security (X-rays)  • Demonstrate an awareness of safety issues regarding the use of microwaves and X-rays  **Supplement**  Recall that light of a single frequency is described as monochromatic.  State that the speed of electromagnetic waves in a vacuum is 3.0 × 108 m / s and is approximately the same in air | Video: Physics Section 3 – Properties of waves – Lesson 4 – The Electromagnetic Spectrum  Powerpoint: Physics 20 – The Electromagnetic spectrum.  Textbook  Pages 160-161; Electromagnetic waves (1)  Pages 162-163; Electromagnetic waves (2)  Section 20 checklist.doc | Textbook  Page 160; Questions (1) to (4)  Textbook answers: Page 329  Talking Paper video – Section 20 – The Electromagnetic Spectrum  Section 20 Exam Question - pdf  Section 20 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.