CiE iGCSE Physics Checklist

Section 20: The Electromagnetic Spectrum

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| **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 |  |  |  |
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| **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 |  |  |  |
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