CiE iGCSE Physics Checklist

Section 17: General Wave Properties

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