Edexcel iGCSE Physics Checklist

Section C13: Light Waves

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| ***I can*** | ☺ | 😐 | ☹ |
| understand that light waves are transverse waves which can be reflected, refracted and diffracted |  |  |  |
| use the law of reflection (the angle of incidence equals the angle of reflection) |  |  |  |
| construct ray diagrams to illustrate the formation of a virtual image in a plane mirror |  |  |  |
| describe experiments to investigate the refraction of light, using rectangular blocks, semicircular blocks and triangular prisms |  |  |  |
| know and use the relationship between refractive index, angle of incidence and angle of refraction |  |  |  |
| describe an experiment to determine the refractive index of glass, using a glass block |  |  |  |
| describe the role of total internal reflection in transmitting information along optical fibres and in prisms |  |  |  |
| explain the meaning of critical angle c |  |  |  |
| know and use the relationship between critical angle and refractive index |  |  |  |
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