Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section C13: Light Waves** |
| Specification | Resources | Assessment |
| •3.14 understand that light waves are transverse waves which can be reflected, refracted and diffracted 3.15 use the law of reflection (the angle of incidence equals the angle of reflection) 3.16 construct ray diagrams to illustrate the formation of a virtual image in a plane mirror 3.17 describe experiments to investigate the refraction of light, using rectangular blocks, semicircular blocks and triangular prisms 3.18 know and use the relationship between refractive index, angle of incidence and angle of refraction3.19 describe an experiment to determine the refractive index of glass, using a glass block 3.20 describe the role of total internal reflection in transmitting information along optical fibres and in prisms 3.21 explain the meaning of critical angle c 3.22 know and use the relationship between critical angle and refractive index | Video: Physics Section 3 – Lesson 2 – Reflection and Refraction Physics Section 3 – Lesson 3 – Total internal reflection and lenses – Beginning to 12:00Powerpoint: Physics 18 – Reflection and Refraction Physics 19 – Total Internal Reflection and Lenses – Slides 1 to 39Textbook: Page 107 Chapter 13: Light WavesPage 107 – Seeing the lightPage 107 – ReflectionPage 109 – RefractionPage 110 – Refractive indexPage 110 – Total internal reflectionPage 115 – DispersionPage 116 Ch.13 ChecklistCh13 Student check list .docDVD Revision check list | TextbookPages 116 – 117. Questions 1 to 8.Textbook Answers (PDF)Talking paper – Edexcel Physics Section C13 Light WavesDVD Multiple choice testSection C13 Exam Question –. (pdf)Section C13 Exam Question – mark scheme. (pdf) |

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Physics Student Book - Pearson

DVD Video Clips – see resource DVD in textbook.