Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section C14: Sound** | | |
| Specification | Resources | Assessment |
| 3.26 understand that sound waves are longitudinal waves and how they can be reflected, refracted and diffracted  3.27 understand that the frequency range for human hearing is 20 Hz – 20,000 Hz  3.28 describe an experiment to measure the speed of sound in air  3.29 understand how an oscilloscope and microphone can be used to display a sound wave  3.30 describe an experiment using an oscilloscope to determine the frequency of a sound wave  3.31 relate the pitch of a sound to the frequency of vibration of the source  3.32 relate the loudness of a sound to the amplitude of vibration. | Video: Section 3 – Lesson 21 - Sound  Powerpoint: Physics 21 - Sound  Textbook: Chapter 14 – Sound  Page 118 – Sound waves  Page 118 – Sound waves in different materials  Page 119 – Measuring the speed of sound  Page 120 – Reflection  Page 121 – Diffraction  Page 121 – Pitch and frequency  Page 123 – Audible range  Page 124 – Loudness  Page 125 – End of Chapter checklist  Edexcel iGCSE Physics Student Checklist Section C14.doc  DVD Revision check list | Textbook  Page 125 – Questions 1 to 5  Textbook Answers (PDF)  Page 126 – End of Section C Questions  End of Section C – answers to textbook questions.pdf  DVD Multiple choice test  Talking paper – Edexcel Physics Section C14 – Sound  Section C14 Exam Question –. (pdf)  Section C14 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.