## **Edexcel International GCSE**

# **PHYSICS** Worksheet



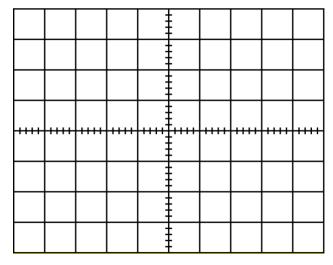
C	Chapter 13: Sound		
1		rund waves are longitudinal waves. Describe the term longitudinal. You may use a sketch to aid our explanation.	
2	а	Sound waves can travel through solids, liquids and gases. Explain why solids cannot travel through a vacuum.	
	b	Explain, with reference to particles, why sound travels through solids more quickly than through air.	
	С	The speed of sound through glass is approximately 5500 m/s. Calculate the wavelength of a wave of frequency 10 kHz.	

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**3** a Sketch on the oscilloscope screen below a wave with a time period of 25 ms.



**b** Calculate the frequency of the wave.

**c** Sketch on the oscilloscope how a wave would look if it was double the frequency.

4 Describe an experiment that can be used to measure the speed of sound.

**5** Two signals are being produced from two different generators. One signal has a low frequency and the other is at a high frequency. With the aid of diagrams, describe the difference between the two sound waves.