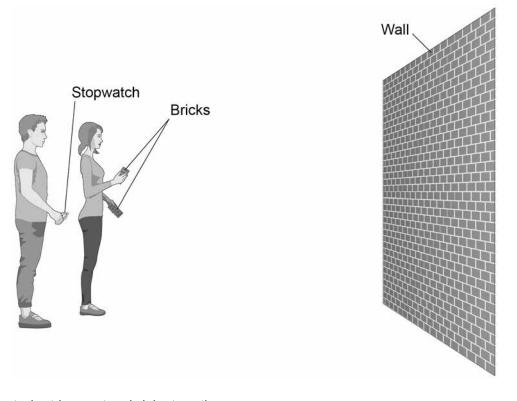
0 2	Figure 2 shows a slinky spring used to model a sound wave.				
	Figure 2				
	·				
0 2 . 1	Label the arrows on Figure 2				
	Choose the answers from the box. [3 marks]				
	amplitude compression fraguency				
	amplitude compression frequency				
	rarefaction wavelength				
0 2.2	What type of wave is a sound wave? [1 mark]				
	Tick one box.				
	electromagnetic				
	longitudinal				
	transverse				
Question 2 continues on the next page					



0 2. 3 Figure 3 shows two students measuring the speed of sound in air.





One student bangs two bricks together.

The sound wave produced is reflected from the wall and travels back to the student
--

Describe how they can determine the speed of sound.

-		

R



[4 marks]

Question	Answers	Extra information	Mark	AO / Spec. Ref.
02.1	wavelength rarefaction compression		3	AO1 6.6.1.1
02.2	longitudinal		1	AO1 6.6.1.1

Question	Answer	'S	Mark	AO / Spec. Ref.		
02.3		The method would lead to the production of a valid Key steps are identified and logically sequenced.		AO2		
	Level 1: The method would not necessoutcome. Some relevant steps are idemade clear.	•	1–2	AO1		
	No relevant content		0			
	Indicative content			6.6.1.2		
	 measure the distance between the the wall trundle wheel or tape measure measure the time taken from bang double the measured distance to ghalf the time use: speed = distance travelled time repeat timings 	jing the bricks to the echo				
	remove anomaliescalculate a mean					
Total			8			