

NAME: .....

SOUND

1. D

2. D

3. D

4.

- (a) (i) greater/higher/more/larger/bigger;  
[Reject longer] 1
- (ii) longitudinal; 1
- (b) (i) vibration; 1
- (ii) 1.6;;  
[Allow 1.3 / 3.2 / 16 for 1 mark]  
[2.6 scores no mark] 2
- (iii) 0.004; 1
- (c) (i) reduced amplitude;  
longer period shown;  
(One cycle to be shown) 2
- (ii) quieter/softer/less loud/volume lower/harder to hear;  
lower/deeper (sound)/pitch decreases/more bass; 2

[10]

5.

(a) distance traveled per unit time or in one second / distance ÷ time  
or rate of change of distance

B1

(b)  $s = d/t$  in any algebraic or numerical form

any doubling of distance or final time

0.48 s (allow 0.24s 2/3 accept 0.5s)

C1

C1

A1

(c) 60/0.48 (5)

123.75 accept 120, 123, 124 (ecf (b))

C1

A1

Total [6]

6.

(a) reflection (of sound/ultrasound) B1

(b) waves of same period (by eye) B1

smaller amplitude (by eye) B1

(c) (i) 20-20 000 Hz B1

(ii) higher than (i) B1 [5]

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