

5 A signal generator produces sounds from a loudspeaker.

(a) (i) Which property of the sound wave should be increased in order to make the sound louder?

(1)

- ☐ **A** amplitude
- ☐ **B** frequency
- ☐ **C** speed
- ☐ **D** wavelength

(ii) Which property of the sound wave should be increased in order to make a higher pitched sound?

(1)

- ☐ **A** amplitude
- ☐ **B** frequency
- ☐ **C** speed
- ☐ **D** wavelength

(b) Sound waves travel as longitudinal waves.

Other waves are transverse.

(i) Give an example of a transverse wave.

(1)

(ii) Describe how the vibrations of longitudinal waves and transverse waves differ.

(2)

(Total for Question 5 = 5 marks)

