

Day 6

Name _____

Date _____

SOUND STUDY GUIDE

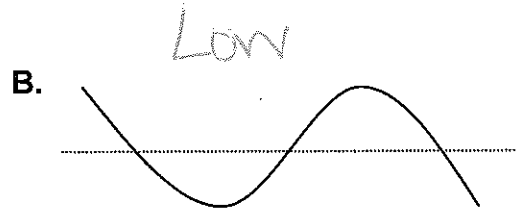
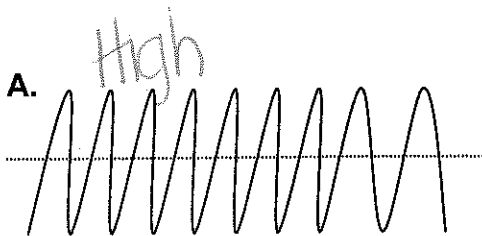
Part 1. Use the words in the word box to fill in the blanks below.

pitch	frequency	wavelength	energy	vibrating
waves				





1. Sound is a form of Energy.
2. Sound is transmitted by vibrating matter.
3. Sound travels in waves.
4. The frequency of sound is the number of vibrations in a given unit of time.
5. The wave length of sound is the distance between 2 troughs or crests in the wave.
6. Objects vibrating faster have a higher pitch than objects vibrating slower.

Part 2. Answer each question below.

7. Label the sound waves below Low Frequency or High Frequency



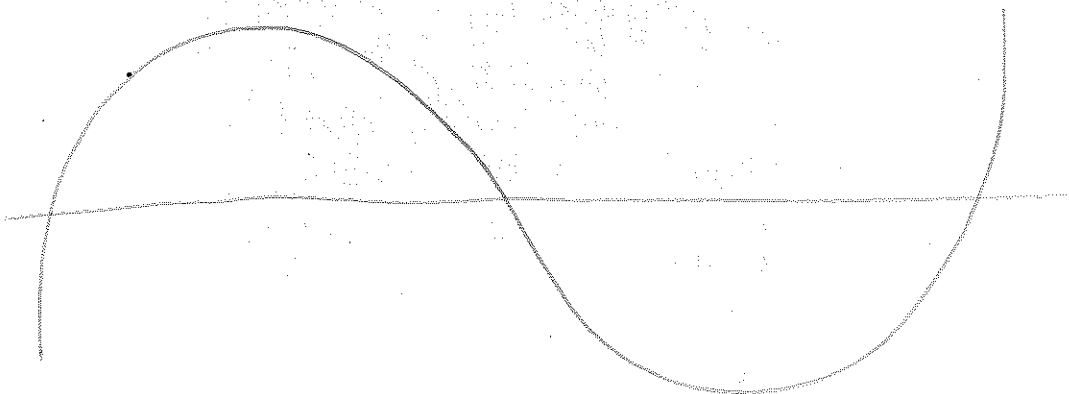
8. Blowing through a straw will produce a sound. Number the straws below from lowest pitch to highest pitch.

- A  4
- B  3
- C  2
- D  1

Part 3. Use the words in the word box to fill in the blanks below.

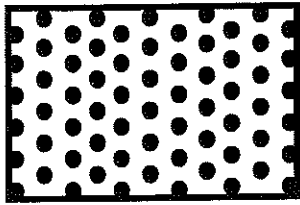
Air	woodwind	gas	wave	water	cat	whale	flute
guitar	Echolocation	percussion	brass	slower	compression wave		

1. Which type of matter does sound travel fastest in? Solid
2. A brass instrument uses a column of air to vibrate sound.
2. Which type of matter does sound travel slowest in? gas
3. Which animal would use sonar? whale
4. When scientists send out sound waves and wait for the echos to return we call that echolocation.
5. This instrument uses strings to vibrate sound. I am a guitar.
6. A percussion instrument makes sound by vibrating the surface of the instrument.
7. A woodwind instrument uses a reed to vibrate sound.
8. Compression wave carry sound, energy, and require a medium through which to travel.
9. Draw a picture of a complete sound wave.

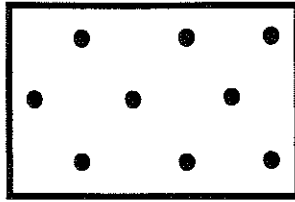


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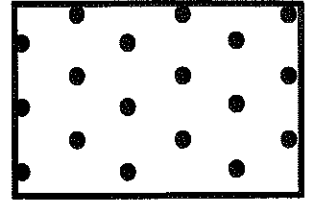
11. Name each type of matter based on the pictures below. Then put them in order from which sound travels fastest to slowest.



Solid



gas



liquid

Solid, liquid, gas

(sound travels through these mediums fastest to slowest.)

12. Label the bottles from the highest to the lowest pitch.

