

FORMATIVE ASSESSMENT OF SOUND

Short Answer Based questions

- 1) Arrange the speed of sound in Steel, water and air in ascending order?
- 2) What is the relation between frequency and time period of the wave?
- 3) Sound waves are transverse waves True or False?
- 4) Arrange the speed of these waves in air in descending order a) light b) Sound c) Supersonic aircraft?
- 5) What is an echo?
- 6) What are three characteristics of the sound
- 7) What is the audible range of sound frequencies for human ear?
- 8) What is Reflection of sound?

Match the column

Column A (Frequency)	Column B (Sound range they fall)
5 Hz	Audible range
25000 Hz	Infrasonic range
25 Hz	Ultrasonic range
250 Hz	
10 Hz	
120000 Hz	

Match the column

Column A	Column B
The maximum disturbance caused by the wave	wavelength
The distance travelled by a wave per second	frequency
The no of complete vibrations per sec	Velocity
The distance between one crest of wave and next one	Amplitude
When we change a feeble sound to loud sound, we increase its	Time period
When we change the pitch, what is getting changed	

Table type question

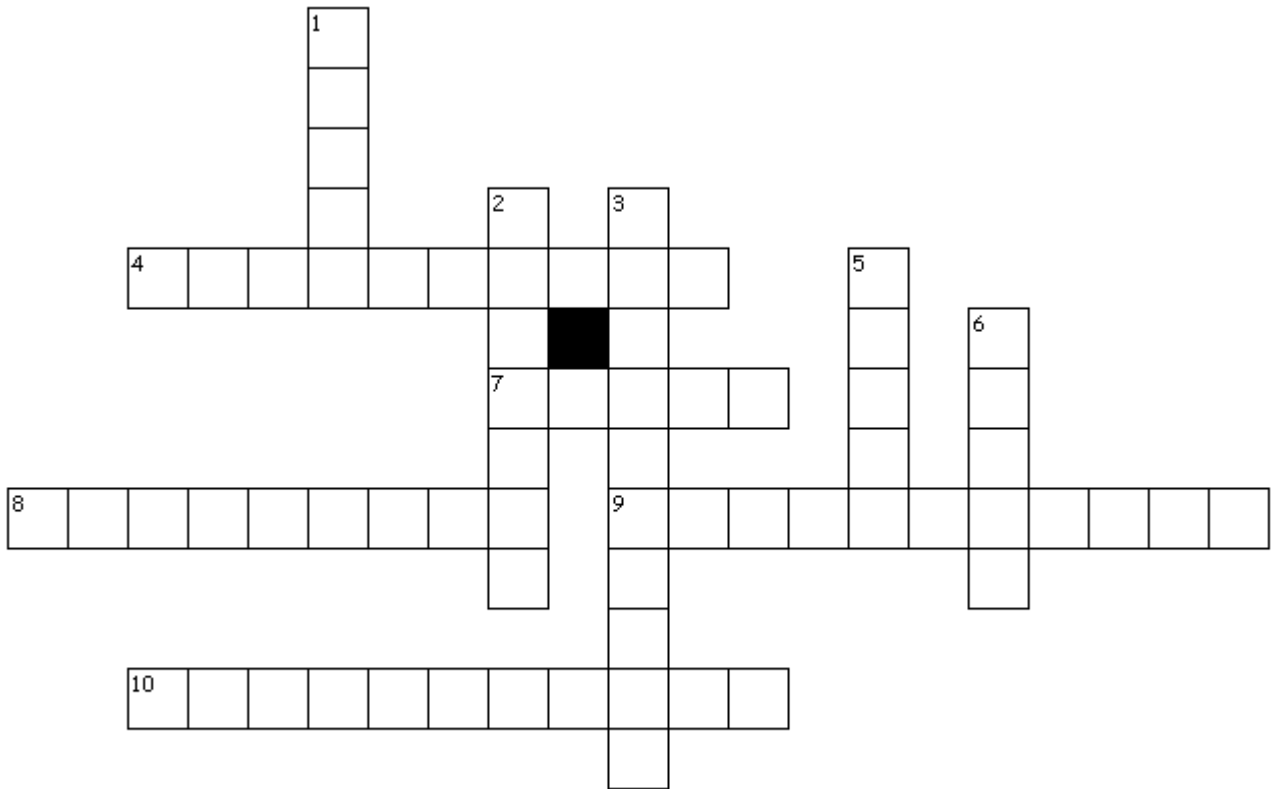
Sound velocity	Frequency	Wavelength	Time period	Audible/Ultrasonic/Infrasonic
330 m/s	550Hz	?	?	?
	500hz	68m	?	?
343.4m/s	?	1.7 cm	?	?

Fill in the blanks

- 1) Sound waves travel in vacuum
- 2) The speed of sound depends on And
- 3) The soft and porous materials are bad Of sound
- 4) The speed of the highly penetrating ultrasonic waves are those of audible sound waves
- 5) The sound are produced before the main shock wave of earth quake

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Crossword Puzzle



Across

- 4. It is used break kidney stones into fine grains
- 7. The unit of frequency
- 8. The loudness of the sound depends on this
- 9. Medical instrument used by the doctors for listening to heartbeats
- 10. It is the region of low pressure in longitudinal wave

Down

1. Apparatus used to find the depth of the sea
2. It converts sound wave frequency into electrical impulses
3. A vibrating simple pendulum produces this type of sound
5. It is the sensation of a frequency
6. Elevation in a transverse wave

Solution**Fill in the blank solution**

- 1) Do not
- 2) Nature of the material , temperature
- 3) Reflectors
- 4) Same
- 5) infrasonic

Crossword Solution**Across**

Ultrasound, Hertz, Amplitude, Stethoscope, rarefaction

Down

Sonar, Cochlea, infrasonic, Pitch, crest