

St. Andrews Scots School

Adjacent Navniti Apartments,
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Session: 2025-2026
Worksheet

Class: VIII

Subject: Science

Chapter: Sound

Q.1. Define the terms:

- a) Vibration
- b) Amplitude
- c) Infrasonic sound
- d) Frequency
- e) Ear drum

Q.2. Fill in the blanks:

- a) Human beings sound is produced by _____.
- b) Sound of frequency lower than 20 Hz is called the _____.
- c) The _____ nerve is also present in the inner ear.
- d) Sounds which are unpleasant to the ear is called _____.
- e) Too much noise in our surroundings that causes discomfort is called _____.

Q.3. Answer in one word:

- a) What is the unit of frequency?
- b) Name a musical instrument which produces sound by blowing air into it.
- c) In which medium sound propagates the maximum?
- d) What is the maximum displacement of an oscillating object is called?
- e) What is the unit of loudness?

Q.4. Answer the following questions:

- a) Why cannot we talk in space?
- b) A ringing alarm clock is placed in vacuum. Why will you not be able to hear its ticking sound?
- c) Why is it more convenient to put the ear on the track to hear a train approaching from far away?
- d) By how much will the loudness of a sound change when the amplitude of vibrations is

(i) tripled (ii) doubled

e) When you listen to the sound produced by a tuning fork and the sound of the same frequency produced by a sitar, you find that tuning fork sounds flat whereas the sitar sounds shrill. Why?