

# INTERNATIONAL INDIAN SCHOOL - BURAIDAH

## Worksheet for the Academic Year 2025 - 2026

Class:8

SOUND

Subject: science

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For question numbers 11-13, two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (i), (ii), (iii) and (iv) as given below –

- i) Both A and R are true and R is the correct explanation of the assertion.
- ii) Both A and R are true but R is not the correct explanation of the assertion.
- iii) A is true but R is false.
- iv) A is false but

1. Assertion (A): Trees planted along roadside help in the reduction of noise pollution.

Reason(R): Plants absorb sound and so help in minimizing noise pollution.

2 .Assertion (A): The frequency determines the shrillness or pitch of a sound.

Reason (R): The loudness of sound depends on its amplitude.

3. Assertion (A): Sound does not need a medium to travel, it can travel in a vacuum.

Reason(R): Sound propagates by causing the particles in the medium to vibrate.

4. Name one musical instrument each in which the sound is produced:

- a. By vibrating a stretched string.
- c. By vibrating a stretched membrane.

5. A simple pendulum makes 10 oscillations in 20 s. What is the time period and frequency of its oscillations?

6. The sound from an insect is produced when it vibrates its wings at an average rate of 500 vibrations per second.

a) What is the frequency of the vibrations in hertz?

b) What is the time period of the vibrations?

c) Can we hear this sound? Why or why not?

7. How is noise different from music?

8. How is noise different from music?

9. Distinguish between - Audible and inaudible sound.

10. Explain how sound is produced in human beings.