

E-LESSON PLAN OF SCIENCE



DATE:

SUBJECT: SCIENCE

TOPIC: **SOUND**

CLASS: VIII

DURATION: 35 MINS.

GENERAL OBJECTIVE:

- ▶ To develop scientific attitude among students.
- ▶ To develop abilities of problem solving.
- ▶ To provide work for leisure .
- ▶ To make the students aware about practical use of science.
- ▶ To develop the reasoning ability.
- ▶ To develop ability to apply scientific knowledge in daily life.

SPECIFIC OBJECTIVE:

1. Knowledge:

- Students will be able to define sound.
- Students will be able to identify sound.

2. Understanding:

- Students will be able to discuss on sound.
- Students will be able to relate this topic with their day to day life.

3. Application:

- Students will be able to participate in the activities related to sound.
- Students will be able to make models on sound.

Material Required:- Bell, Plate, Spoon etc.

INTRODUCTION

Pupil teacher activity

- ▶ (Pupil teacher will instruct students to close their eyes) He/ She will ring a bell and will ask students what is in my hand ? (Bell will be disappeared now)
- ▶ How did you identify the object in my hand ?
- ▶ What is sound ?

Students activity

- ▶ Now students will open their eyes and will give response – Bell is there in your hand .
- ▶ I identify the object by listening the sound
- ▶ Problematic question.

STATEMENT OF AIM:

Today under science subject we will study about **sound** in detail.

Teaching points:

- I. Definition of sound.
 - II. Sound is produced by vibrating body.
 - III. Sound produced by humans.
 - IV. Sound needs medium to travel.
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PRESENTATION

Pupil teacher will present all points of Topic in detail by using PPT/slide share , images, figures, animation, tables, videos showing activities can be used to explain topic more effectively.

DEFINITION OF SOUND

Sound is a pressure wave which is created by a vibrating object. This vibration set particles in the surrounding medium which is air in vibrational motion, thus transporting energy through the medium.

For ex.-

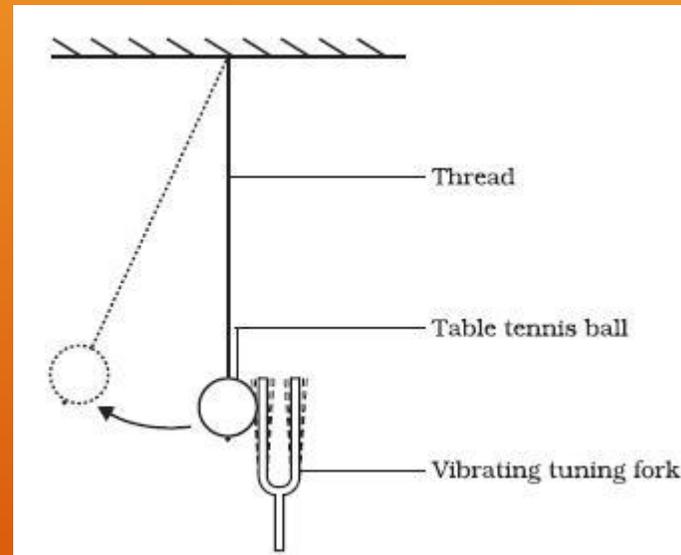
Place a plate and strike it with a spoon. The plate starts vibrating produces particular sound that can be heard.



Vibrating dish produces sound

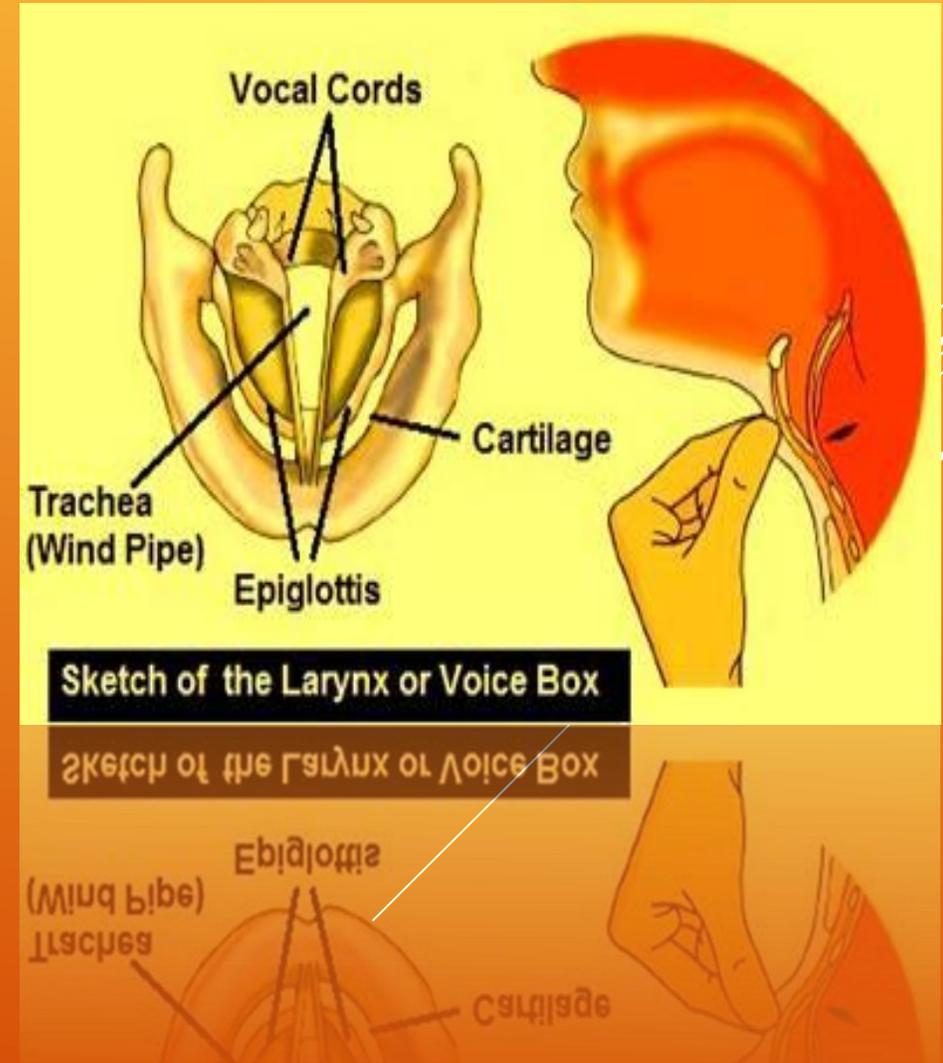
SOUND IS PRODUCED BY VIBRATING BODY

To and fro or back and forth motion is termed as vibration. For example when a pair of tong is stretched and released a vibration is produced in the tong and this vibration produces sound. When it stops vibrating it stops producing sound.



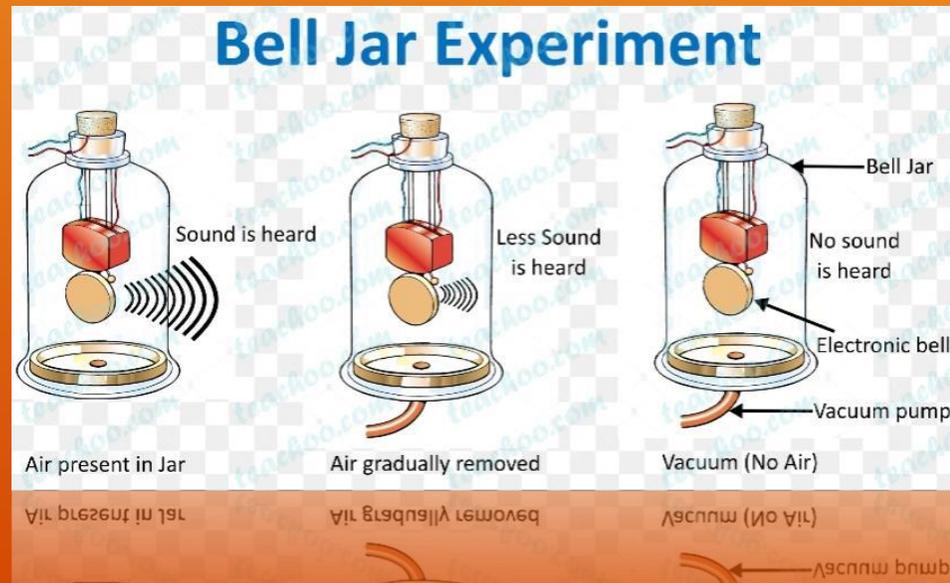
SOUND AND HUMANS

In humans, the sound is produced by the voice box or the larynx. Put your fingers on the throat and find a hard bump that seems to move when you swallow. This part of the body is known as the voice box. It is at the upper end of the windpipe. Two vocal cords, are stretched across the voice box or larynx in such a way that it leaves a narrow slit between them for the passage of air



SOUND NEEDS MEDIUM TO TRAVEL

Sound needs a material **medium** for their **propagation** like solid, liquid or gas to travel because the molecules of solid, liquid and gases carry **sound** waves from one point to another. **Sound** cannot progress through the vacuum because the vacuum has no molecules which can vibrate and carry the **sound** waves.



RECAPITULATORY QUESTIONS

(Students comment on the following statements as true false in chat box)

- A. Sound is a pressure wave. ()
- B. Sound do not need medium to travel. ()
- C. Voice box is the organ which produces sound in humans.()
- D. Sound is produced by vibration.()

(NOTE: THE NO OF RECAP QUESTIONS CAN BE INCREASE ACCORDING TO TIME DURATION.)

HOME WORK

Q. Make a list of musical instruments producing different type of sound.

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