



Provincial Department Of Education – Sabaragamuwa  
WEEKLY SCHOOL

Subject : Science

Grade 7

Week : 13<sup>th</sup> of 2<sup>nd</sup> Term

## Unit 11 – SOUND(1)

✓ Complete the following activities using the textbook or other appropriate learning resources.

### Activity 11.1

**You will need :-** A speaker, some pieces of polystyrene, connecting wire, dry cells

**Method:-**

- Connect the wires to the terminals of the speaker. Place the pieces of polystyrene on the speaker.
- Connect one of the two free ends of wires to the dry cell.
- Touch the other free end of the wires with the other terminal of the dry cell and remove at once. (Do not keep the wires connected to the dry cell)
- Keep on touching and removing one end of the wires to the dry cell and record your observations.

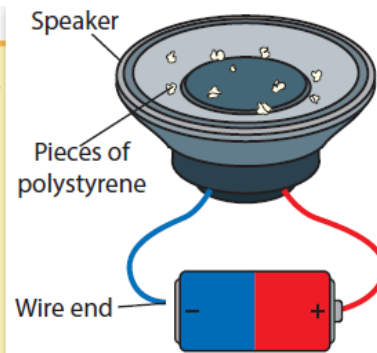


Figure 11.1 ▲

### Activity 11.2

**You will need :-** A tuning fork, a laboratory stand, a piece of thread, a small polystyrene ball

**Method:-**

- Hang the small polystyrene ball (using a piece of thread), as shown in the figure.
- Vibrate the tuning fork and bring it close to the polystyrene ball.
- Observe what happens. (Repeat this several times.)

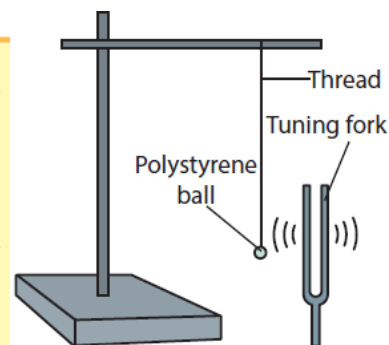


Figure 11.2 ▲

### Activity 11.3

**Method :-**

- Place your fingers on the middle of your throat, as shown in the figure.
- Speak slowly and record what your finger feels.
- Speak louder and record the feeling to your fingers.



Figure 11.3 ▲

## Instruments that produce sound



### Activity 11.4

**You will need :-** A guitar, a drum, a flute, a tabla

**Method :-**

- Produce sound using the sources of sound that you are provided with.
- Observe the part of sound source that vibrates when sound is produced.
- Tabulate your findings.



Sound source/ Instrument	Part that vibrates
Guitar	
Drum	
Flute	
Tabla	

➤ Write down five musical instruments that produce sound by vibrating strings.

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Write down five musical instruments that produce sound by vibrating membranes.

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➤ Write down five musical instruments that produce sound by vibrating air.

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### Assignment 11.2

- Listen carefully to some natural and artificial sounds heard in the environment and list them out. Tabulate them as given below, with the part that vibrates when producing sound. (method of producing sound)

Sounds heard	Part that vibrates
School bell	