

ACTIVITY NO. 13 - LET'S MAKE SOME MUSIC

Subject	Science
Class	VIII
Chapter/Unit	Sound
Topic	Jal Tarang
Time	30 minutes
Nature of Activity	Group

What will I learn (Learning Outcome)?

Will comprehend the relation between pitch and frequency

Skills: Applying and Analyzing

What I have to do?

To show the relation between pitch and frequency

What do I require?

6 glasses, water, pencil/pen/stick.

What do I need to know?

Pitch refers to the effect of frequency of the vibrations on the ears. Higher the frequency more will be the pitch and vice versa. Sounds having higher pitch are shriller.

➤ Teacher's Activity

Teacher will divide the students into groups and will introduce the activity to them. Teacher will give demonstration and will ask the students to perform it after observing.

1. Take 6 glasses and mark the glasses as A,B, C, D, E and F
2. Pour water in them in increasing order i.e. glass B will have more water than glass A, glass C will have more water than glass B and so on.
3. Strike the glasses filled with water with pencil.
4. Record the observations.

How will I proceed?

➤ Student's Activity

Students will observe the activity and perform the activity in groups. They will record the observations in the table given below.

What have I observed?

S.No.	Observation	Name of the glass
1.	Which glass will have most shrilling sound?	
2.	Which glass will have the low pitched sound?	

What have I learnt?

Frequency and pitch are _____ related to each other. The more the frequency the _____ the pitch and the sound will be _____.

What am I curious to learn?

- Let us make miniatures of musical instruments in groups and note their observation
- Let us relate amplitude and loudness.

Let me evaluate myself

1. What is the audible hearing range of human ear?

2. Name three musical instruments and their vibrating parts.

3. How is the voice of a 5 year old child different from the voice of a 25 year old man?

4. The wires of a guitar are of different thickness. Why?

5. Draw two graphs representing high pitch and low pitch sound waves.

