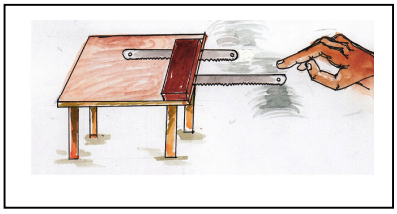
EXPERIMENT – 2

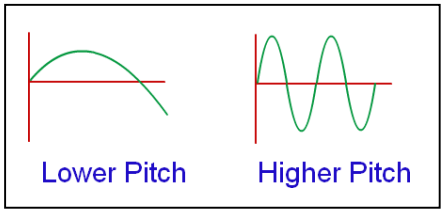
PITCH OF SOUND

Aim : To find the relation between the frequency of the sound produced and the Pitch or shrillness of the sound

Required : Wooden table, 30 cm metal scale or hack-saw blades-2, a brick or stone.

Description : Due to vibrations of less frequency, sound having less pitch is produced. If frequency is more then Pitch of sound is also more.





Procedure:

1. Place the two scales on the table with one part of the first scale on the surface of the table and rest of it in air and two parts of the second scale on the surface of the table and rest of it in air.
2. Keep a heavy brick on first ends of the scales on the table such that they would not be fall.
3. Vibrate the both scales with same force.
4. Observe the vibrations and simultaneously listen to the sound produced.
5. Repeat the same 2 or 3 times and record the observations.
6. Note down the observations in each and every case.

Observations :

Sl No	Length of scale in air	Vibrations in the scale (Less / More)	Frequency (Less / More)	Pitch of Sound (Soft / Loud)
1.	Scale with more length			
2.	Scale with less length			

If number of vibrations increase, the Pitch of the sound produced is ……

If the frequency increases, the Pitch of the sound produced is ……..……..

Precautions :

- Vibrate the scale slowly with less force, otherwise it may bend.
- Careful observation of vibrations and frequency is needed.
- Preplan is needed to apply same force on two scales.

Result : Observed the relation between the frequency of the sound produced and the Pitch or shrillness of the sound

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