

MAGICAL SOUND BOX

- We may not realize it but our world is constantly buzzing with sounds. Sounds you enjoy, you call music. Those you don't, act like noise. Either way, our world is incomplete without Sound. With so much to thank sounds for, why not engage in Hands-on Sound Activities for kids!

After all, it is one of our 5 senses! Brownie points for making own musical instruments from the waste materials present in the house taking idea from some of the sample musical instruments present in our Magical Sound Box.



Materials Used: Plastic pipes, Balloons, Caps of empty bottles, marbles, empty bowl, Ball bearings.

Age group for playing: 3 to 5 years

Age group for creating: 13 to 17 years

Time of preparation: 30 minutes

Cost: Rs 50

• Concept/Skills mapped:

- Enhance child's engineering and tinkering skills;
- Teach students to solve problem and think critically;
- Increase concentration;
- Help students reason and make observations



How this toy kit can be used?

This Sound kit for kids is highly rewarding as besides the above brain benefits, these Sound activities for kids will also keep them meaningfully engaged and bust boredom. The kit comprises of 4 basic musical instruments made up of junk material and some loose junk material to make a DIY musical instrument by taking clue from the sample instruments available in the box. The students will get basic understanding of the production of sound by different vibrating parts of the several instruments present in the kit.

How this toy kit is important in learning and development of child?

Students explore the physics of sound, how the ear hears and how musical instruments work through interactive demonstrations and student activities. This toy kit is used as an important aid to introduce the concept of sound to middle level students. Through various instruments of the kit the concept of loudness and pitch and the factors on which it depends can be clearly demonstrated to the students. The students can themselves try and change the factors to produce sounds of different loudness and pitch.



COMPONENTS OF SOUND KIT

Sonic Trampoline

- A simple instrument made by stretching a balloon on a ceramic bowl is a fun way to teach basics of sound to students. It works when ball bearings sets the stretched balloon in vibrations.

Water Flute

- This instrument is made by fixing a water filled balloon to one of the open ends of a PVC pipe. This is an excellent way to show how the difference in the amplitude of vibrations produced in the water affect the sound produced

Blow Pipe

- A simple plastic pipe having a movable rubber cork that can alter the length of air column will help students understand the physics of sound well.

Bead Drum

- An instrument made by arranging two wide caps arranged back to back with balloon heads at both ends. The strikers are made by fastening the beads on a string.

Junk Material

- Some junk material has been provided to encourage students to make their own DIY instrument.