

MakersBox January

Let's look at everything students made in the Maker Space in January

Grade 1, Hear Closely

Sound, Science

It's the month of Sound- students in grade one worked with little bits kits to understand sound- What is Sound? How is it produced? They also explored basic circuitry and saw how sound can be produced electronically.



Grade 2, Coloured Shadows? Really??

Light and Shadow, Science

Students completed their Kaleidoscope and did an exploratory exercise around Light and Shadow. What was so interesting about it? Students learnt how shadows can be more than just black in color.

Grade 3, It's Windy here...

Wind Energy, Science

A spill over activity from November, Students completed their wind turbine project and learn how to harness wind energy to generate electricity. Here is a look at the final project:



Grade 4, Volume On

Sound, Science

Students are working to build an old fashioned speaker using a 100W speaker unit and an amplifier to understand how VOLUME, BASS AND TREBLE act as variables in changing sound quality.



Grade 5, Scrap to the rescue!

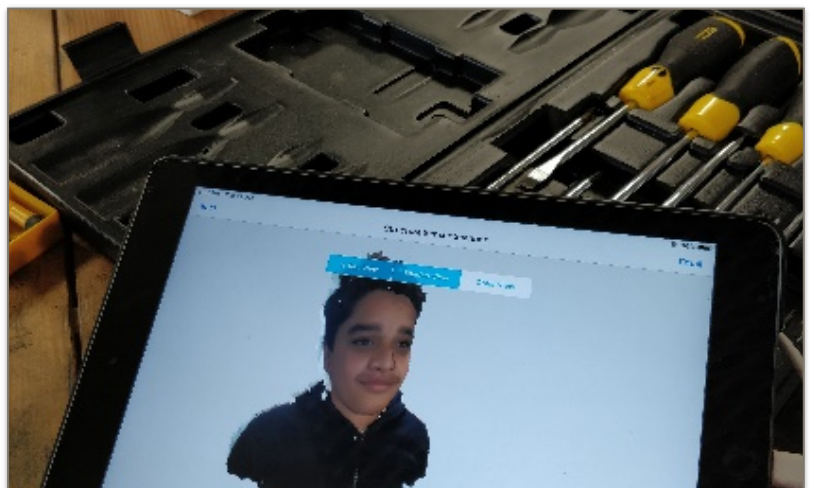
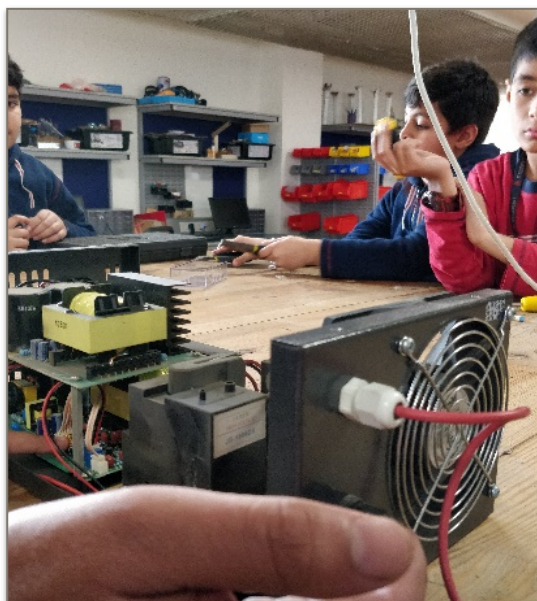
Electromagnets, Science

Students are working to build an electromagnetic wand that will work as a scrap picker. With this activity, they explore essential physics concepts and the field of waste management.

Enrichment Program

During after-school enrichment classes, students learned about 3D Scanning-scanning themselves and their peers.

For another activity, students took apart an old 40 Watts Power Supply Unit- the best way to learn how something works- take it apart!



World Studies, Sikhism

For the month of January, students explored the faith of Sikhism in the World Studies Unit. Like many faiths Sikhism gives utmost importance to some words and phrases or 'Sounds' that are said to have a positive impact on us and the world around us. The Maker Space project connected the relevance of sound in Sikhism to the sound around us.

Primary grade worked to make a Tonoscope and visualised sound with the same testing it by blowing air and making high and low pitch sounds.

Secondary grade had a more challenging task at hand- generating a tone and building a Chladni Plate. Students explored Cymatics and how different frequencies are generated and the effect they have on inanimate things such as sand or sugar.

Primary Grade: Tonoscope

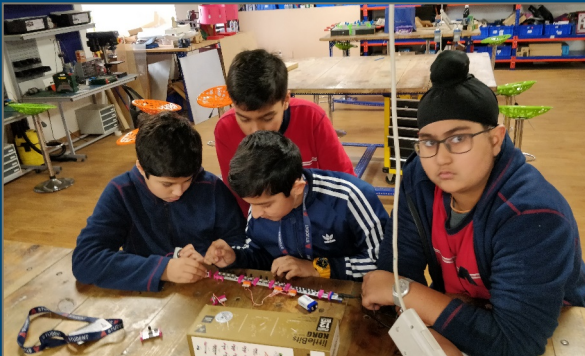
Students worked with PVC pipes and some regular material such as a balloon to build a tonoscope. The guiding questions behind the activity: What is pitch and frequency? Can sound be visualised? What effect does it have on the environment around us?



Secondary Grade: Chladni Plate and Cymatics

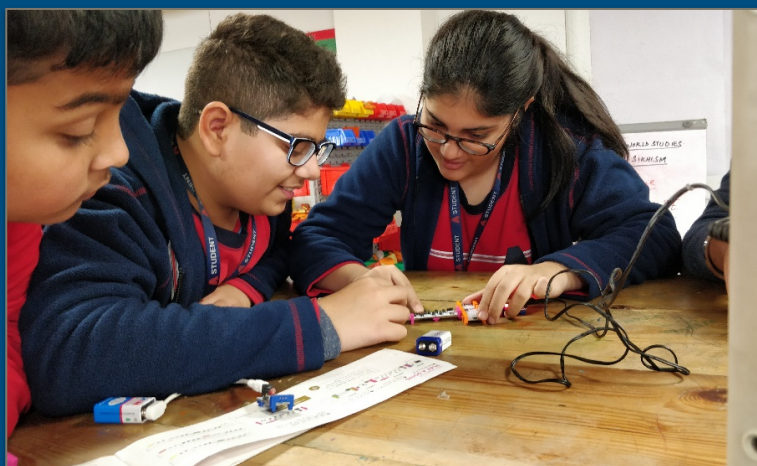
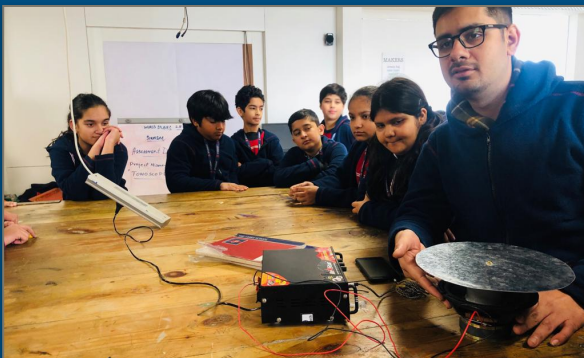
Generate a Tone

Students worked to generate a tone using the little bits kits with the challenging task ahead, generating a tone using a program.



Chladni Plate

Students built a Chladni plate and saw the effect of different frequencies on sand granules.



Mathematics Fest

Who said mathematics is boring? Students worked hard to make mathematics fun by preparing games and aids for the Mathematics Fest. Here are some of the images, take a look:



Disclaimer: Safety is priority at MakersBox. We urge all our students to wear proper safety gear before working in the lab. Sometimes, students take out their safety gear to get their pictures clicked.