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THE MAKERS MONTHLY
 Taking a step towards the extraordinary...
 December Edition

PHILADELPHIA
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 AT ONE DOLLAR PER ANNUM

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 THE MOST REASONABLE

THE EARLIEST NEWS.
 THE EARLIEST NEWS IN THE COUNTRY
 THE MOST COMPLETE
 THE MOST REASONABLE

NEW WAY OF CONDUCTING MAKERSPACE SESSION IS COOL.

In the previous term, the members of the Makers-verse team had observed that the sessions being conducted are not as expected. The sessions were not long enough to create meaningful outputs, and the week-long delay between sessions caused students to forget, or misplace or accidentally destroy their work.

After pondering over the issue, the team decided to come up with new ideas for ways to conduct sessions for the Makers-verse.

After a deep discussion with Kiran Ma'am, the team proceeded to figure out the details with Muzammil Sir and Deepa Ma'am. After much deliberation and back-and-forth exchange of ideas, we settled upon the Makers Day approach.

So what is the Makers Day? As the name suggests, this is a day where the participants spend the entire day with the Makers-verse team, along with their HRTs, to build something meaningful. The duration of the session makes it possible to do one whole thing from start to finish, and from our preliminary data, the results are positive.

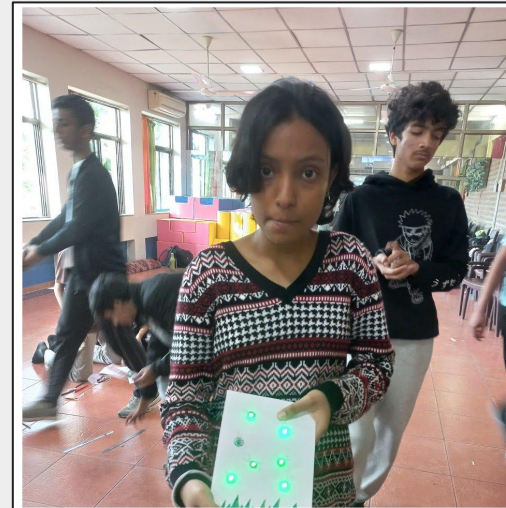


“I feel like we started the week very well... I would connect back to our tone of finding the extra in the ordinary, because our ordinary makerspace session would have been an hour and a half, and usually it would take us 3-4 sessions to complete something, but today, one: we can take back something that we’ve made in school, two: we can take back ideas which we can implement at home.”

Tanuj from Grade 7, regarding his experience of the Makers Day.

“Thank you for the incredible Maker’s Day experience in Grade 5. Eva was thrilled to share the skills and creativity she learnt. She illustrated a girl representing herself in the paper circuit with a light shining over her head representing her mind 😊. Her technical and artistic abilities shone through, reflecting the impactful guidance she received from you. She always looks forward to Maker’s Day!!”

-Hetal Gajjar, Eva’s Mom

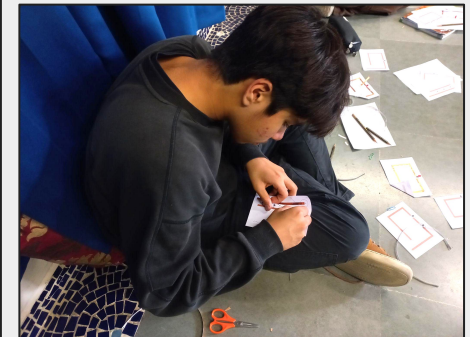
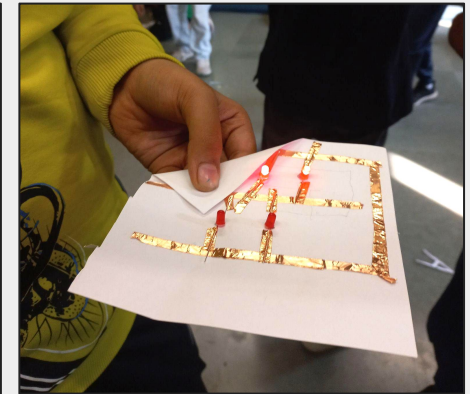
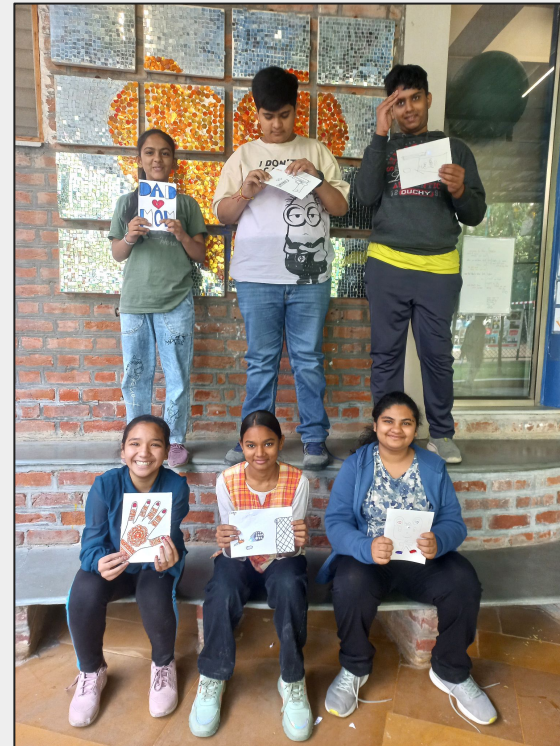
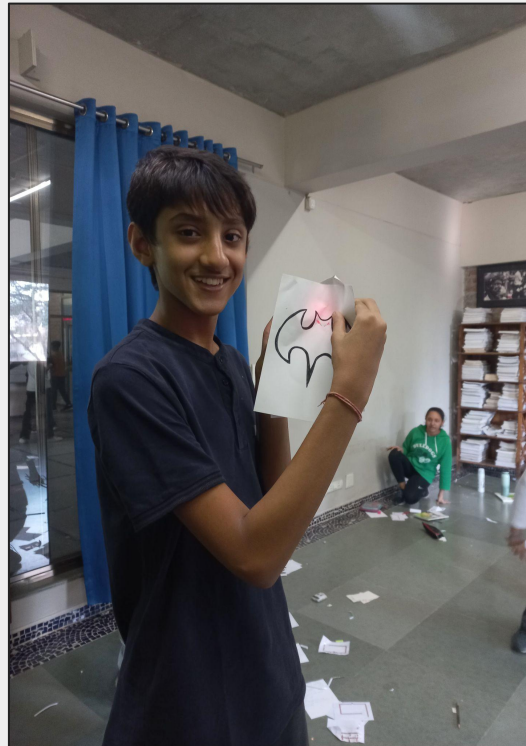


“I personally felt that this was a great opportunity for the students to let out their creativity. For the brief time I was the grade , I was approached by the students where they were showing me their fun projects. Thanks for making this happen. Looking forward to Makerverse for the month of January.”

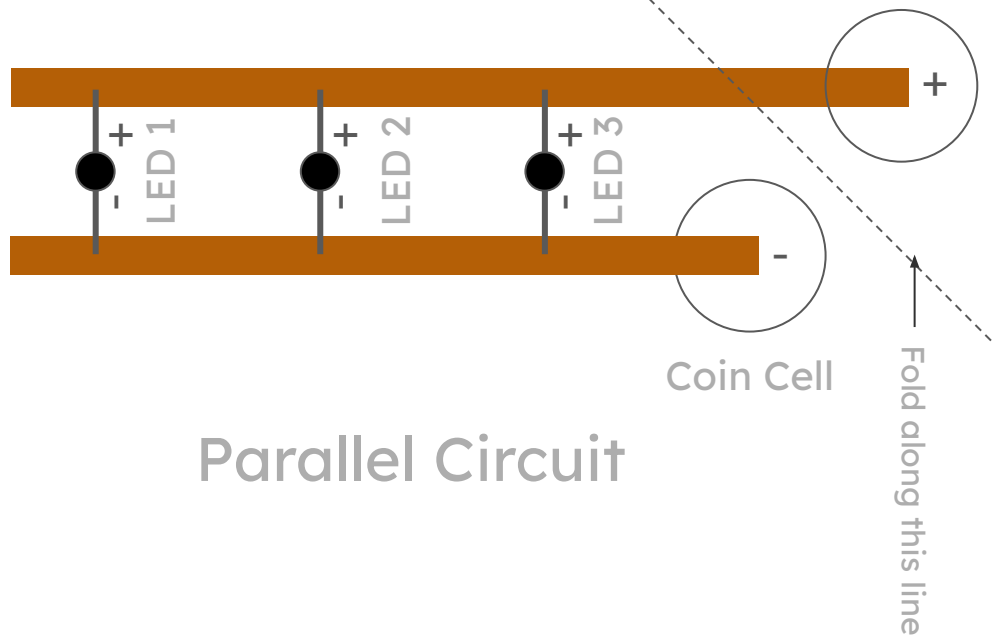
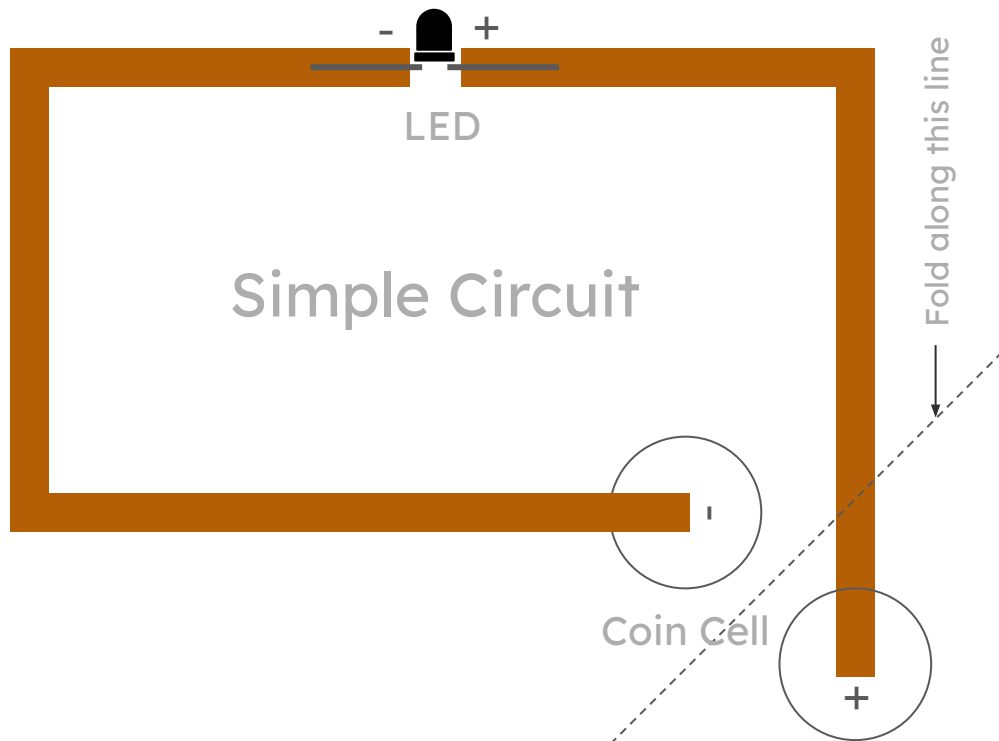
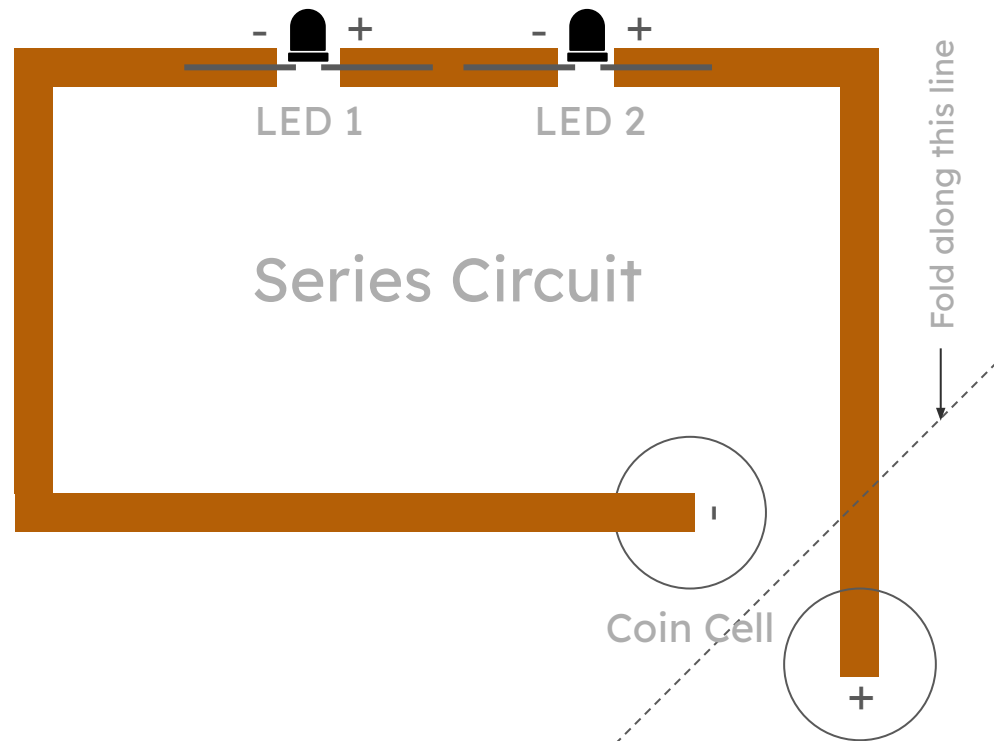
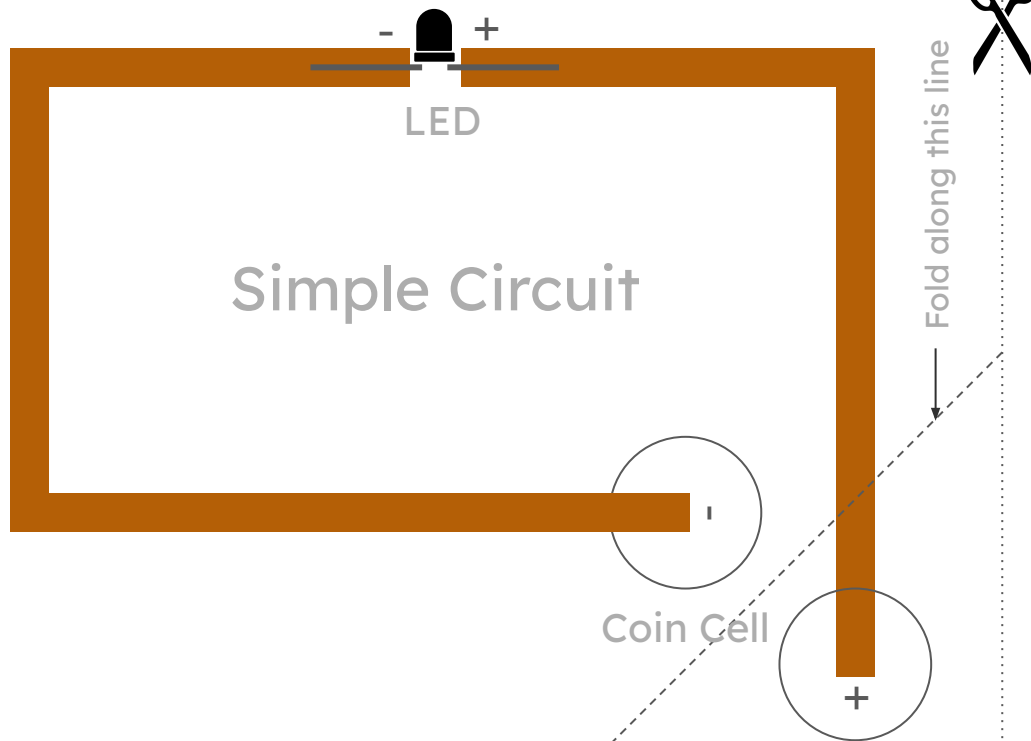
-Kumar Joshi, Grade - 9 HRT

IT'S RAINING PAPER CIRCUITS...AND WE'RE NOT COMPLAINING.

Within the month of December, the Makers-verse team has conducted the Paper Circuits workshop for nearly 200 students. The workshop has been a raging success, and the students are loving it. They've worked with students from Grade 5 through Grade 9, with varying levels of complexity. They've even conducted it for a teacher's PD session. Here are some pictures of the various workshops:



So the team has decided to share the workshop with everyone. The next page contains the templates that they have used in session to make the circuits. They recommend starting with the simple circuit, and if you feel confident, go for the parallel circuit, and finally, the series circuit. There are things to be learned along the way, so feel free to reach out to the Makers-verse team regarding your queries.



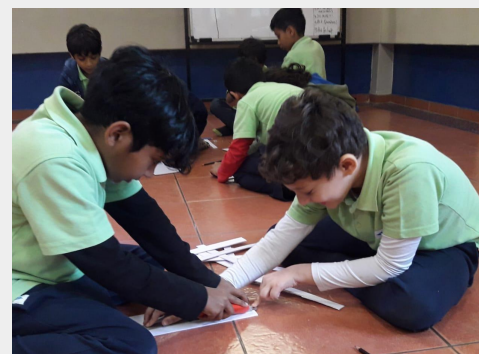
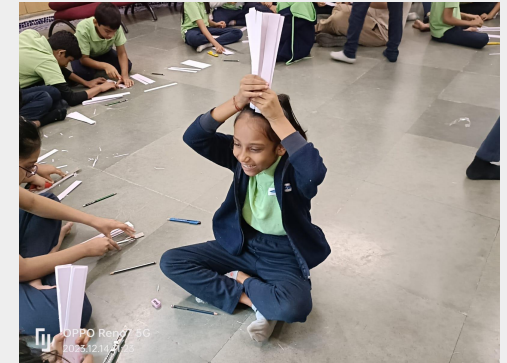
SCISSOR MECHANISM: LEARNING ABOUT SIMPLE MACHINES IS FUN!

Students of grades 2, 3 and 4, were introduced to simple machines through this activity.

However, the first Makers Day session with these three grades did not go completely according to plan. The actual plan consisted of making the mechanisms, then conducting a challenge where they will be learning how to use the mechanism to stack the most number of cups.

By the time the students built the mechanisms, the time was already up and they had to take the mechanisms home as they were, but they loved it nonetheless.

Another surprise that the team had to adjust with was the material. The corrugated cardboard that was used for Grade 2's Makers Day was surprisingly flimsy and prone to breakage. But the team conducted a remedial session and used PVC Foam sheet instead of Cardboard to make the parts. And in an interesting way, children are now better aware of which material to use to create stiffer structures.



STUDENTS PERSONAL PROJECTS...

Kabir and Hiren(Gr 9) are teaming up to create a robot that can draw on a white board using board markers. Gone are the days of needing another person or a student to write on the board. Now their robot will take care of that.

Paraj(Gr 9) is recreating his model from the Rishi Day event. He is learning 3D modeling, electronics and mechanics to bring his ideas to life.

Shrinika(Gr 9) is working on creating a teaching tool for explaining the reflex action circuitry in the body and she plans on using a combination of electronics, programming, 3D modeling and molding-casting to create an interactive model of a person reacting to external stimulus.

Yashas and Vikas have shown keen interest in making mechanical automata using everyday materials.

Some students that have also expressed interest:
Shaurya, Veda, Meghraj, Mahir, Mishit, Devansh

MINI UPDATE TO THE MAKERS-VERSE

The space has recently received a cool, new feature, in the form of a tool rack. Check it out.



MAKING JOKES

My granddad always used to say, “As one door closes another one opens.”

Lovely man.

Terrible cabinet maker.

TEACHER PROJECTS NOW WELCOME AT THE MAKERS-VERSE

The Makers-verse team is very happy to announce that the space is available for teachers to make any ideas they may have. The ideas could be related to making teaching tools, or to solve a problem in the class, or to create something plain fun! We provide teachers with the necessary tools and expertise in making almost anything. So don't be shy, sign up for a teacher project at the link below:

<http://tinyurl.com/tchfrm>