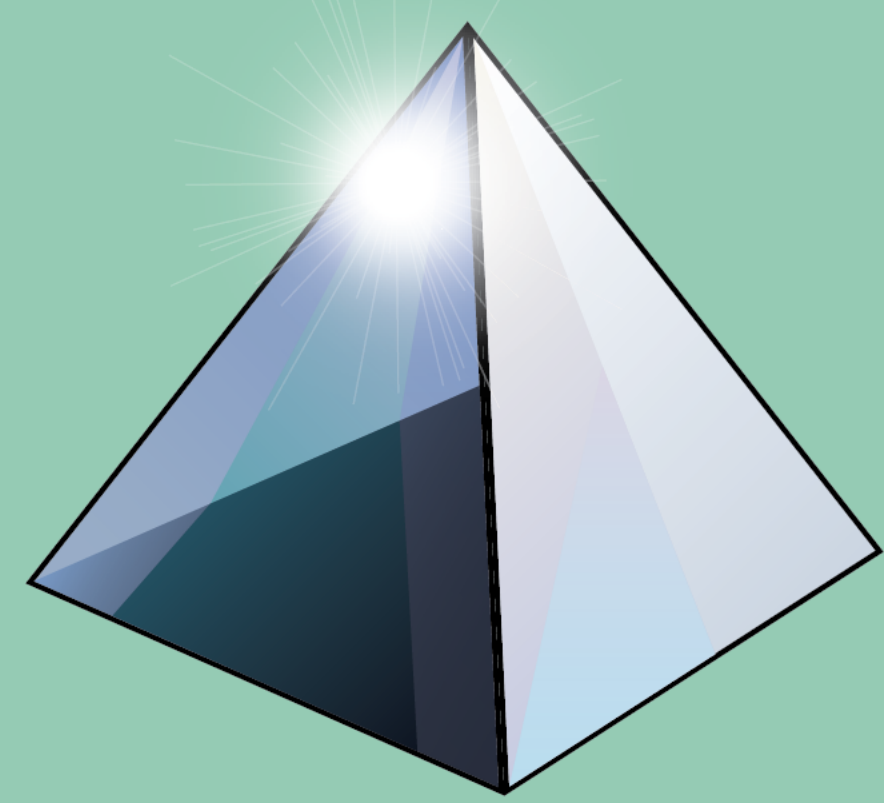
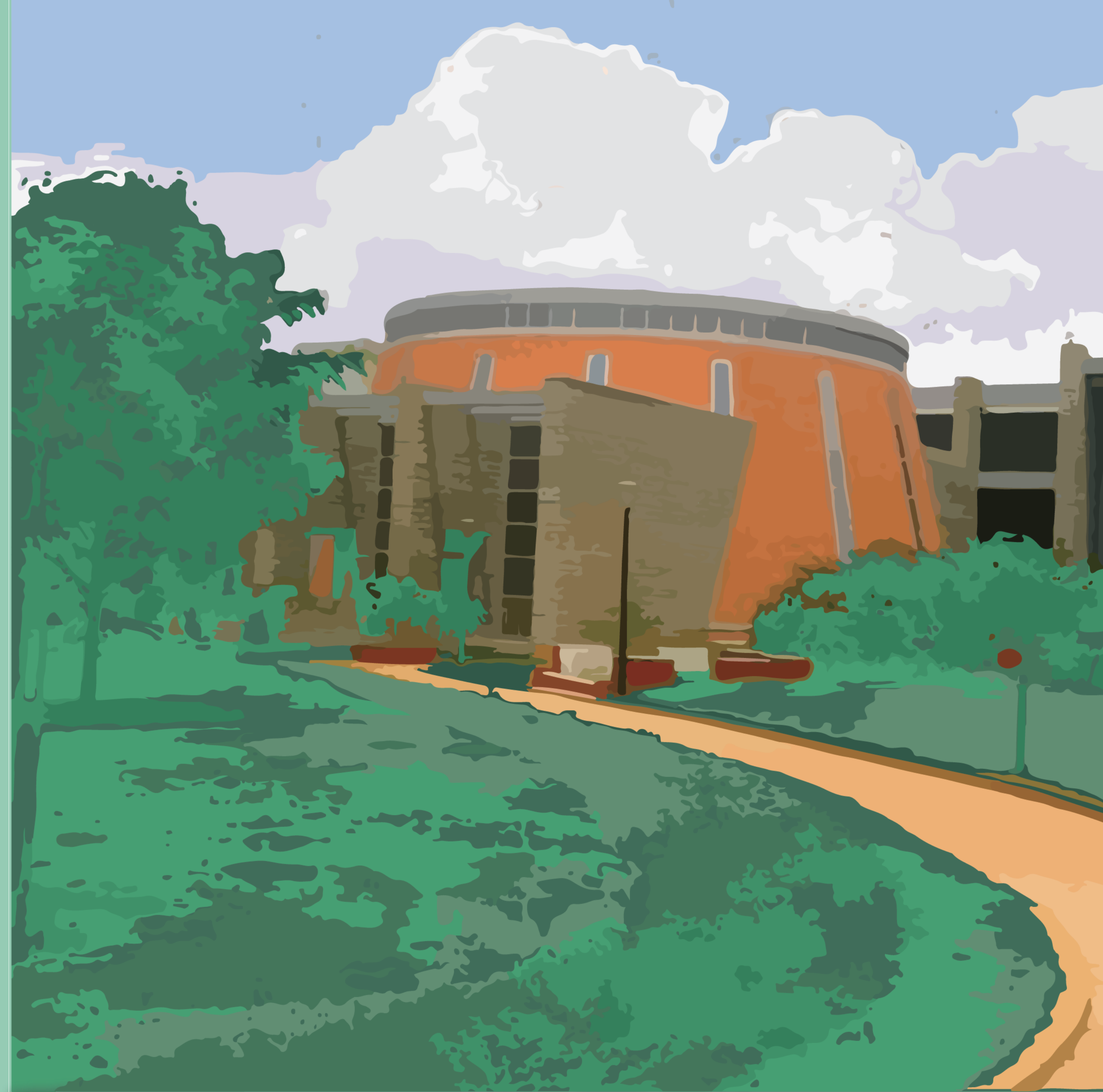


PRISM 2022

Promise In Science and Mathematics



ICTS-TIFR in association with BRC conducted PRISM 2022 on 26th August 2022 as a part of Azaadi Ka Amrit Mahotsav. We invited 75 students and 25 teachers from Govt Middle Schools located in North Bengaluru to ICTS with formal approval from the Block Education Office North Bengaluru. The 1st session was a Hands-on Maths Circle Session in Kannada, involving geometrical construction and maths puzzles. This session was intended to let students and teachers experience the joy of doing mathematics. The 2nd session was a science talk in Kannada 'Our Universe', which touched upon interesting phenomena at large length scales, followed by Q&A. The talk was based upon the virtual exhibition by ICTS-TIFR called Cosmic Zoom (www.cosmic-zoom.in).



Children have an inborn curiosity to explore, investigate, ask questions and seek answers. Nurturing this desire towards STEM subjects at a very young age produces a positive change in their attitude towards science. ICTS through its outreach program aims to develop this scientific temper through its new

initiative **School Outreach**. We aim to see students thoroughly engaged and involved in what they learn in schools. Instead of following the old textbook based learning we encourage understanding based learning workshops around various scientific topics.



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Maths Circle India

Maths Circle India is a collaborative initiative launched by several research institutes across India. The goal of this initiative is to identify mathematically inclined children at an early age. The Maths Circle involves a group of carefully selected students, who meet online once in two weeks on weekends for a few hours to discuss carefully chosen mathematical explorations. The explorations and course material are curated by active researchers in Mathematics and the sessions are led by Ph.D. students and postdoctoral researchers with an aptitude for communication and pedagogy.

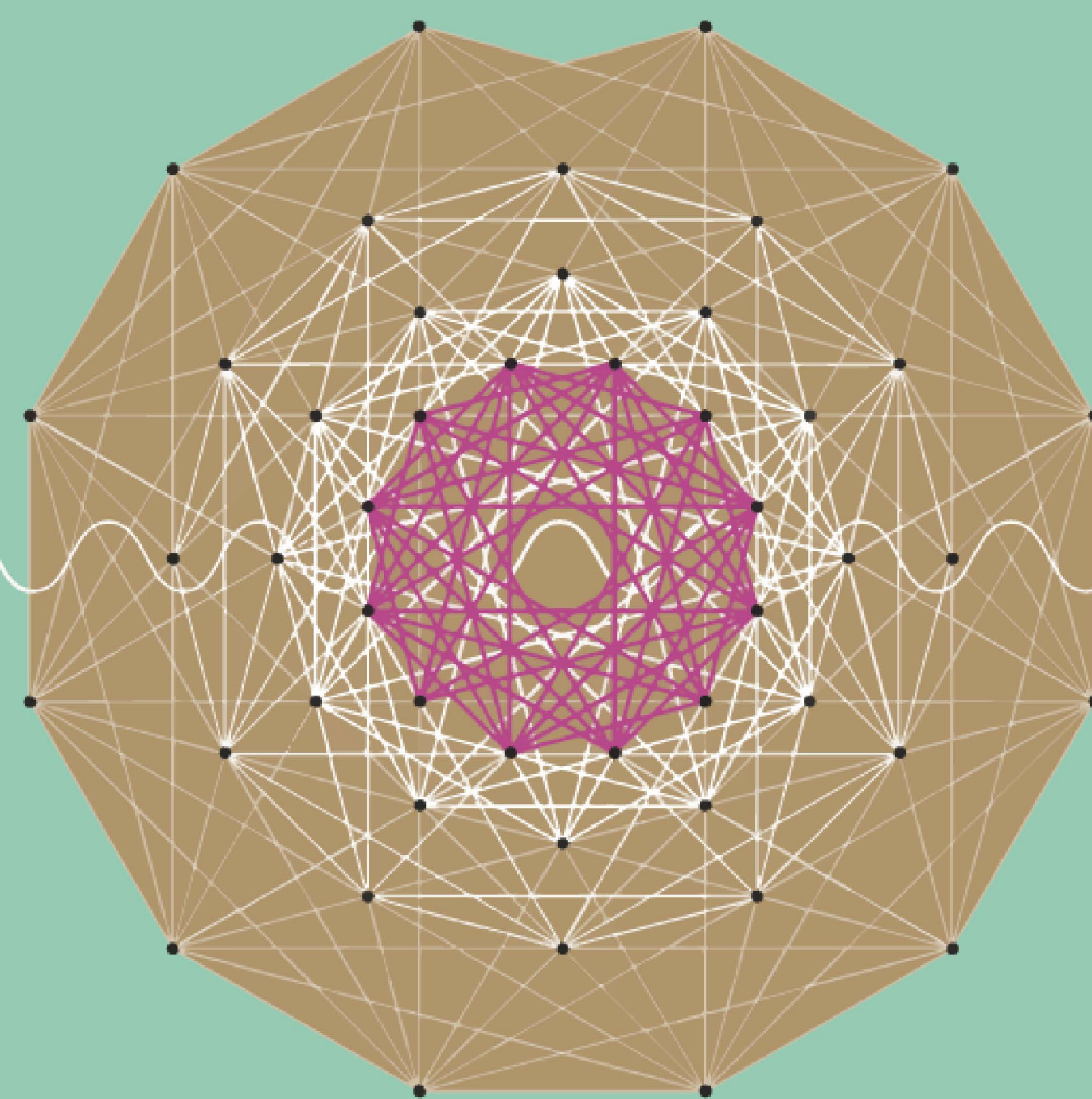
For more details please visit:

<https://www.icts.res.in/outreach/maths-circle-india>



JNP-ICTS Science Education Program

In this program a very experienced team of teachers from Jawaharlal Nehru Planetarium conducts training sessions to teachers from government schools of Karnataka, bringing simple activities and demonstrations to the classroom to illuminate basic ideas and concepts of science and mathematics. ICTS provides organizational support and the zoom platform for the online sessions.



For watching the previous events , please visit:

<https://www.icts.res.in/jnp-events>

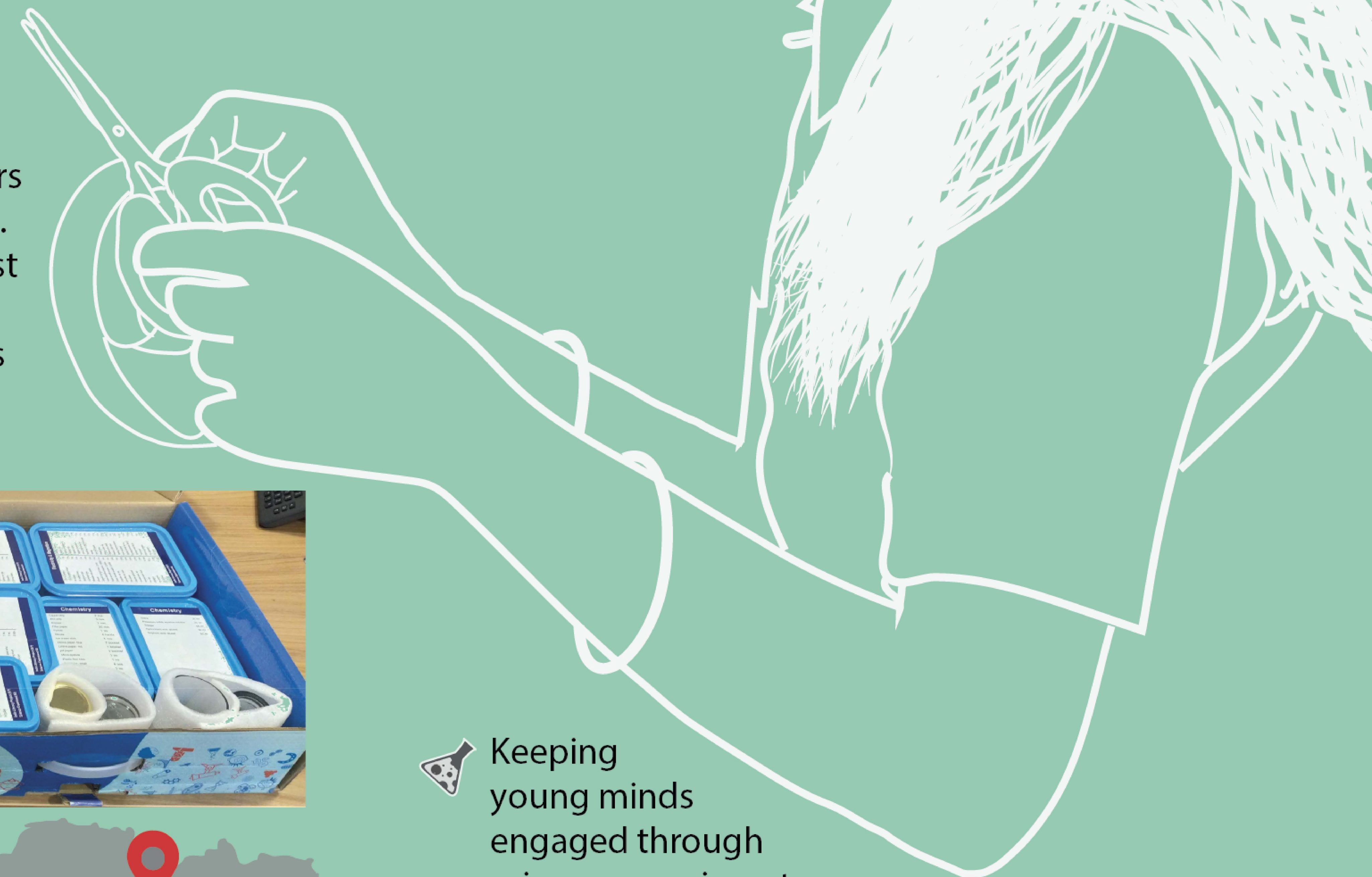
Science Kits

DIY toys made with everyday objects and materials are used to demonstrate science concepts to school students. The aim of this activity is to inculcate logical, creative thinking and encourage the students to come up with innovative experiments with day to day material. Such hands-on activity will dispel the fear of science and math among students, allowing for a more fun and engaging way of learning, and perhaps consider scientific research as a career at a later stage.

ICTS in collaboration with BRC distributed experiment kits and library books and trained teachers in using the kits from about 46 state government run schools in and around North Bangalore. This covers 6 cluster regions of rural Bangalore. To ensure that the kids get the most use of them we plan various follow up activities, including school visits and interaction with students.



No. of experiment kit distributed: 49
No. of library kits distributed: 18
No of teachers trained: 46



Keeping young minds engaged through science experiments.

Experiments in the kit are mapped to the state board syllabus to help students gain deeper understanding of the topics covered in the classroom. Video references and a manual in Kannada are also included. These experiments can be replicated using inexpensive day to day objects, as shown in the reference videos and manual.

The library kit contains 120 recommended books in Kannada and English to help students improve their reading and comprehension skills.