

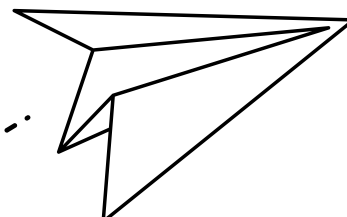
We Make
SCIENCE
INTERESTING



Learn

By

Doing



1,000+ Schools under STEM Education Programmes
Science Technology Engineering Mathematics
Over 1Million+ Happy Students who have benefited
while unleashing their creativity

ENTECRES Labs Pvt. Ltd.
An initiative by research
engineers



STEM Education

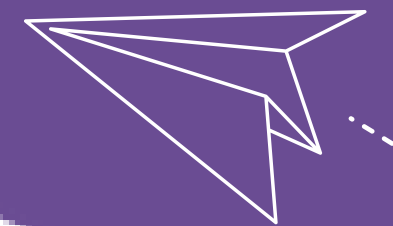


STEM was coined in 2009 by Obama Administration to bring focus and importance of relooking at science education in a mission mode. US has historically been a leader in science education but once they realised that only 16% of high school students were interested in a STEM career and had the required proficiency in mathematics, the gravity of situation not only needed to be addressed but demanded a focus of national level reform in STEM education.

STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators. Innovation leads to new products and processes that sustain our economy.

This innovation and science literacy depends on a knowledge base in the STEM areas. It is clear that most jobs of the future will require a basic understanding of math and science matched with skills.

Having activities that show real-life implication of STEM can pull together the ideas presented in school and help to show how they benefit our society and even our world as a whole. Children can see that what they are learning now is pertinent to their future and the future of the whole world, creating an interest often lacking when learning new concepts that do not seem to carry real-world application.



The Context:



Science is basic knowledge about the world around us “How & Why” and how thing work.

For too long, science education in the India has emphasized rote memorization

Science education in Indian schools has traditionally faced major challenges.

Our resistance to use application in science learning has increased over the years.

Science is more than a textbook full of facts.

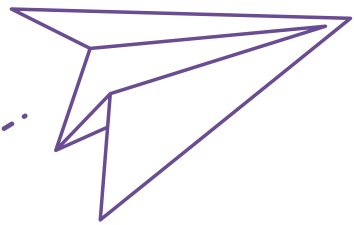
For imparting science education, approach needs to incorporate the most important part of science: practices and the critical thinking.

Science classes are no different than history, geography and the language

The use of textbooks explaining theory, experiments, processes has further declined the interest of the students for science education.

It has been observed that there have been more investments in classroom technologies as a solution assuming that technology would translate into better learning outcomes.

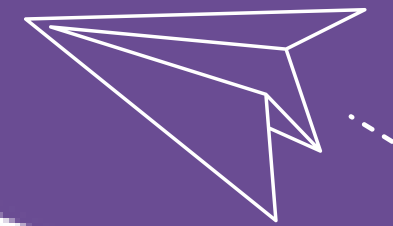
Investment in Robotics Lab etc can bring desired outcomes if only the basic foundation is based on proficiency in skill and application.



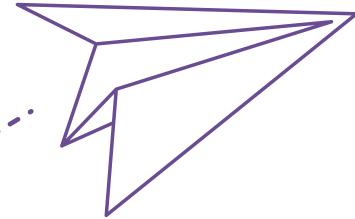
Why do we need STEM education?



- » Our strength as a country in the next few decades lies in the availability of a vast youthful workforce. But we cannot simply rest with this advantage of demography. The youth have to be suitably educated and skilled to help realize the demographic dividend.
- » The Fourth Industrial Revolution will lead to profound shifts across all industries, reshaping production, consumption, transportation and delivery systems, among other factors
- » According to the various reports STEM occupations are growing at 17%, while other occupations are growing at 9.8% and going to further reduce in service sector
- » By one popular estimate, 65% of children entering primary school today will ultimately end up working in completely new job types that don't yet exist.
- » To succeed in this new information-based and highly technological society, students need to develop their capabilities in STEM to levels much beyond what was considered acceptable in the past."
- » Students with scientific and technical education have a higher income even in non-STEM careers



How this works?



Teachers along with our team select activities & experiments from a pool of 400+ experiments.



Selected experiments are put in academic annual planner of school & delivery is planned.



Regular teacher training is arranged as per the flow of activities.



Students perform activity record observation & take kit home.



Manuals, Worksheets, How-to-video & assessments are shared with school.



Consider this; instead of simply telling a class that, e.g. the phases of a moon follow from the orbits of the earth and moon, teachers might ask students to post theories. The question might be, "Doesn't the moon looks same this week as it was last week?" and carrying out a simple activity around the same.

Curriculum Integrated Program



STEM Lab @ School

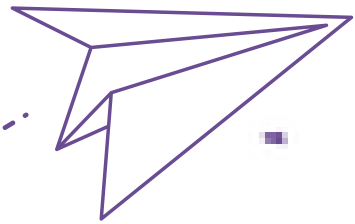
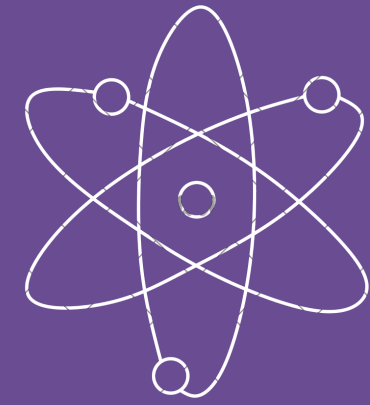
My STEM Lab offers curriculum mapped science activities and experiments are from grade 1 to grade 10. Students perform science activities and experiments integrated with the lesson plan, enabling better understanding of concepts along with its practical applications.

My STEM Lab helps students to develop motor skills, scientific temperament, creativity and paves the way to innovation.

Activities are mapped across various curricula CBSE, ICSE, IGCSE, IB, SSC etc.. Also can provide customized plan to suit different curriculums.



STEM Lab Features

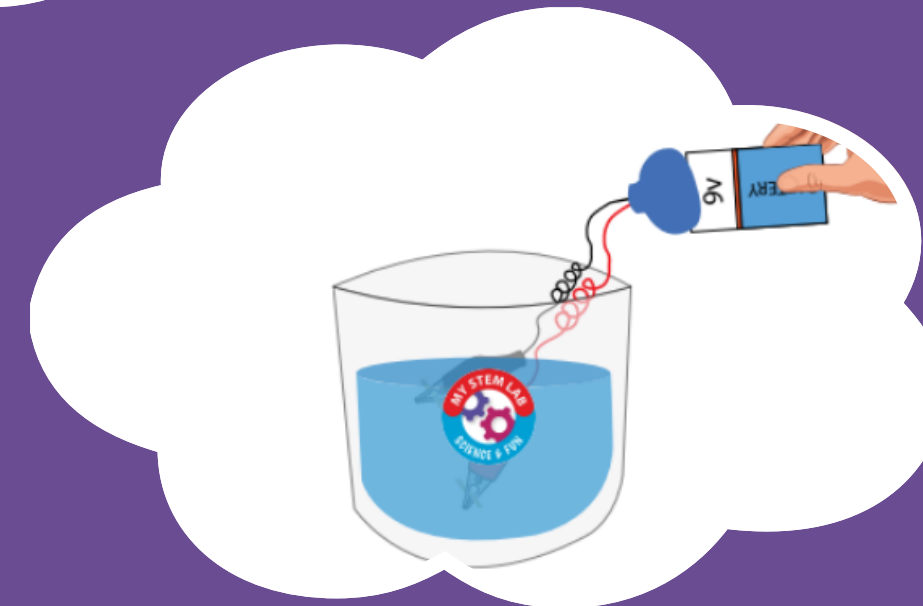
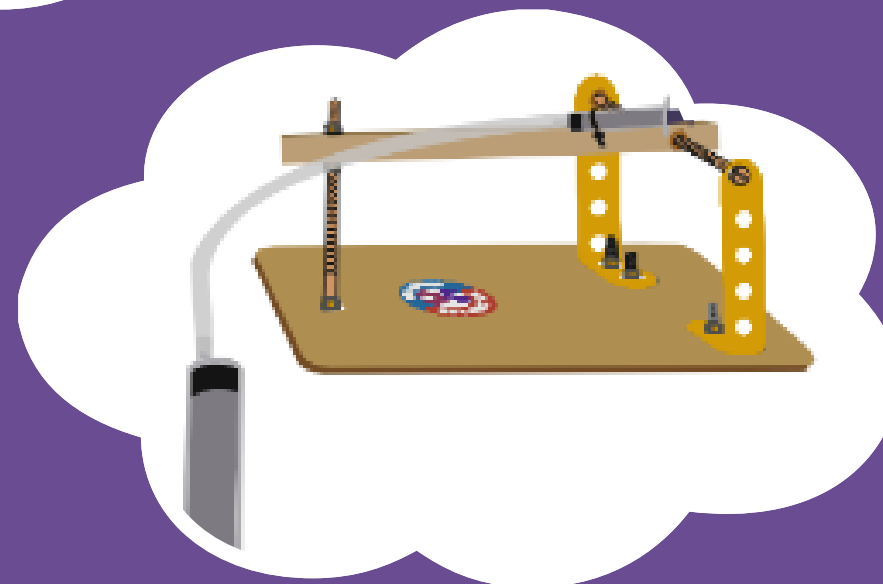
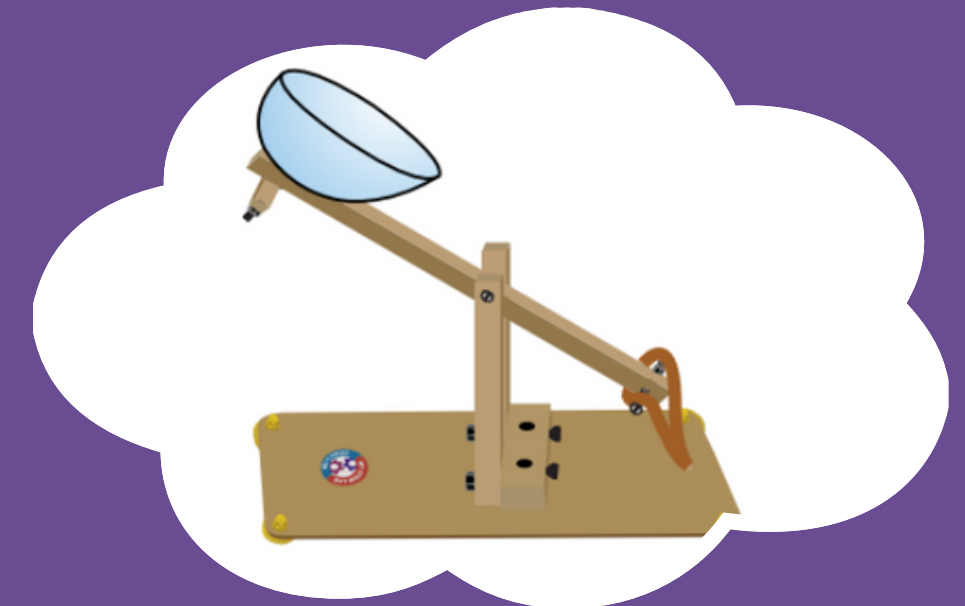
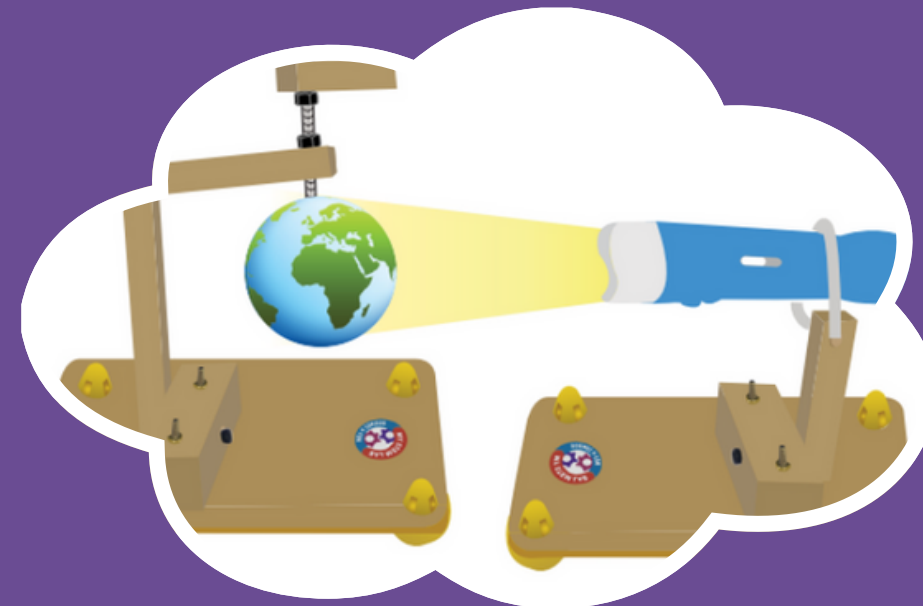
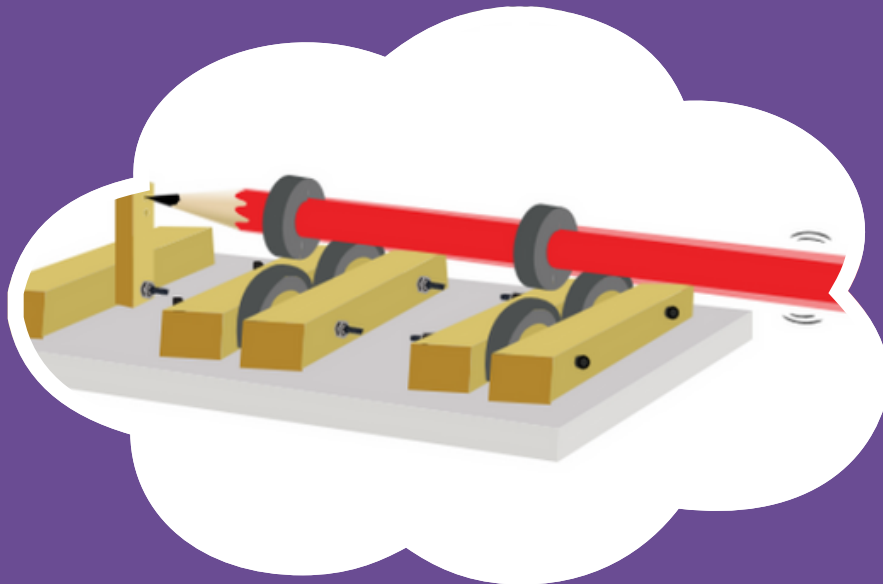


- » STEM Lab has 1200 reusable kits mapped to respective syllabus from grade 1 to grade 10 covering all the concepts.
- » All the experiments has how to video, manuals and worksheets available in multiple language.
- » STEM Lab also has accessories and equipments necessary to perform any course related chemistry, biology and physics experiment.
- » STEM Lab also has Basic and Advanced Robotics kits.
- » STEM Lab package includes 2 teachers training session of 4 hours each along with online support and training.



STEM Kits

MY STEM LAB enables students in asking questions, developing hypothesis, engage in activity, testing models and in getting evidence based learning.





Stem Lab Set Up

STEM Lab tailor customized the program that fits your need.



Robotics Program



LEVEL 1: BASIC

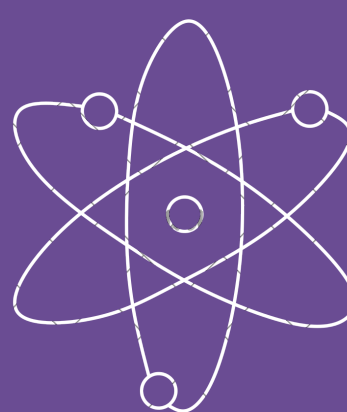


Basic level aims to provide a technical platform for the School students from grade 3 to 5. This program offered to smoothen their journey in the field of robotics and to promote robotics right from the grass roots. It consists of fundamentals and practical concepts of basic circuits, basic mechanics, robotics and its various applications.

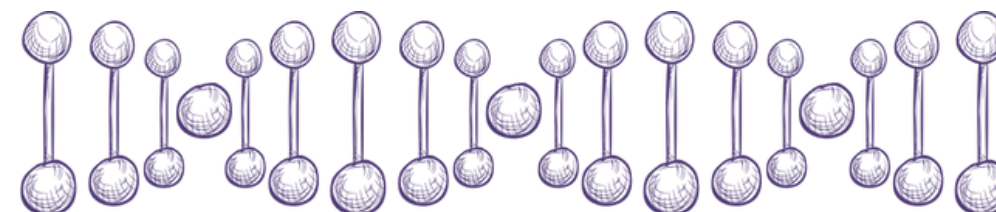
LEVEL 2: ADVANCED

Advanced level aims to provide a technical platform for the School students from grade 5 to 7. This program offered to enhance on Basic Electronics Circuits, Mechanics, Simple & Complex Machines, Robotics and its various applications.

LEVEL 3: PROGRAMMING

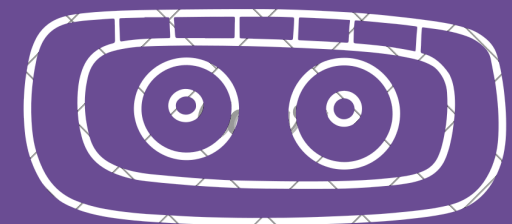
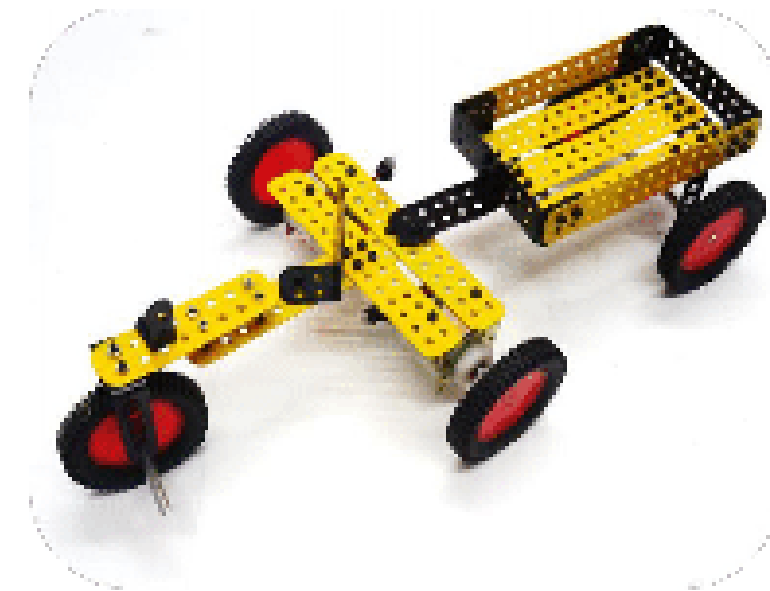
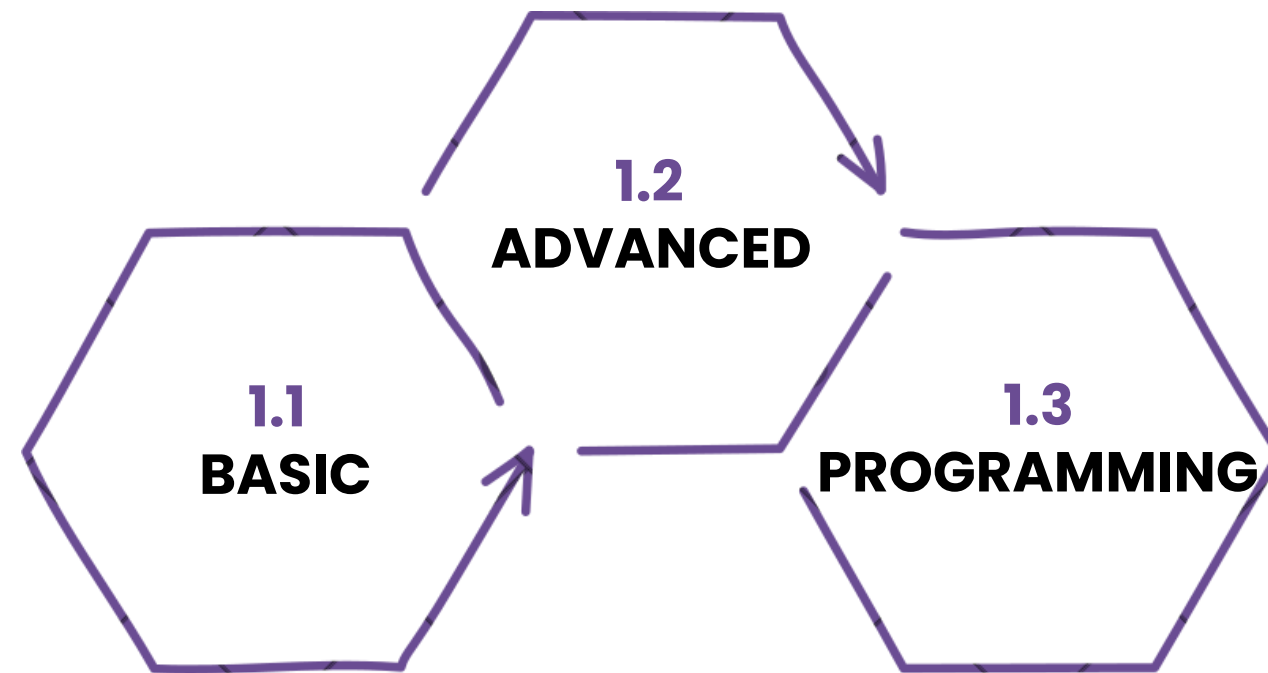
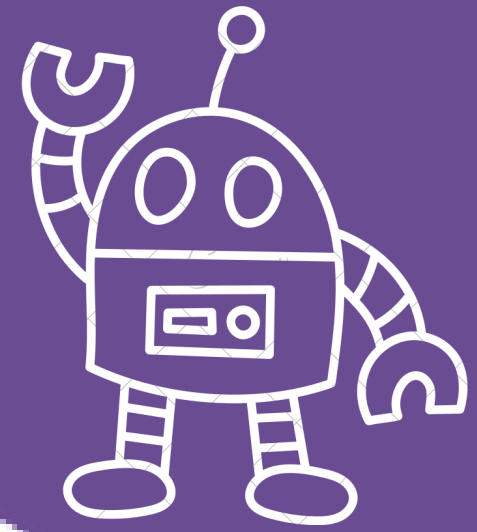


Programming level provides a technical platform for the school students from grade 8 to 12. This program offered to enhance on Logic Writing & Programming skills, Advanced Electronics Circuits & Modules, Mechanics, Complex Machines, Sensors, Processors/ Controllers, Motor Drivers, Robotics and its various applications.



Robotics Kits

MY STEM LAB offers 3 levels of robotics kit along with the content weaved around the classroom learning of science, math and computing.

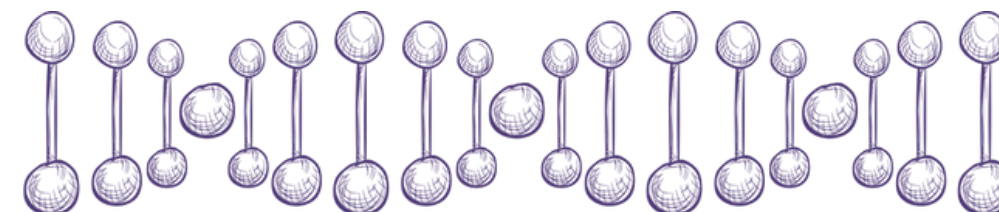
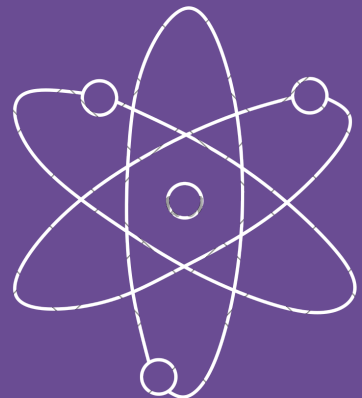


ROBOTICS Lab Features

- Robotics Lab has 3 levels of reusable kits mapped to respective syllabus from grade 3 to grade 12 covering various STEM concepts including programming, cognitive skills, motor skills, Problem Solving skills, logical & analytical thinking skills.
- Entire content has how to video, manuals and worksheets available in multiple languages.
- Robotics Lab also has accessories and equipment necessary to build any electronics & machine based autonomous applications.

Lab package includes

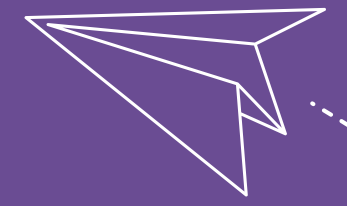
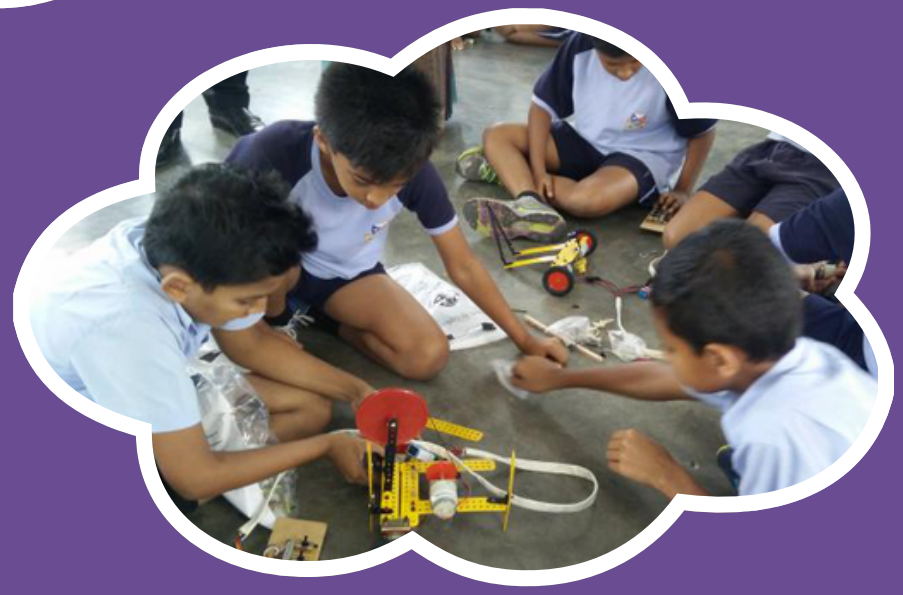
- > 2 teachers training session of 6 hours each
- > Online Support [Whatsapp/Skype]



Robotics Lab Set Up



Robotics Lab customized to fits your need





Our Activities

SCIENCE FAIRS

ENTECRES works with schools to organize one to three days mega-event at the school in order to expose students to science and technology with display of various activities, working models, science shows, competitions and live projects

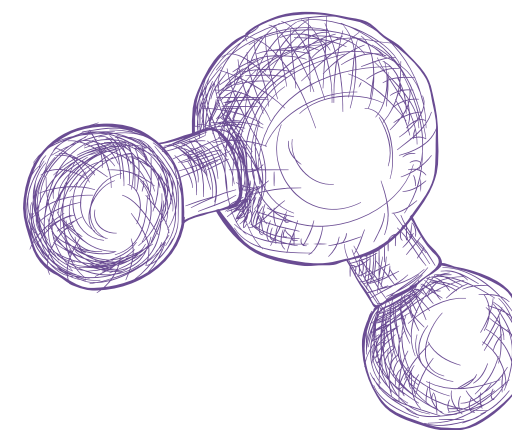
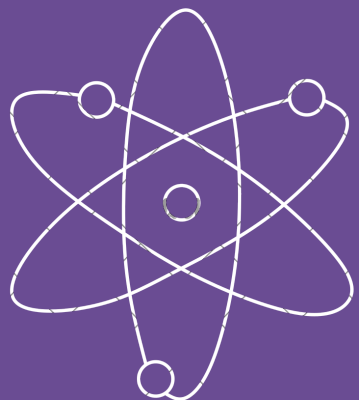
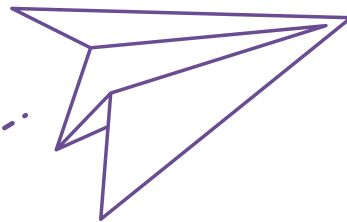
STEM SUMMER CAMPS/ WORKSHOPS

An amazing and effective way to engage students during vacations & weekends to make them understand science concepts through short duration workshops.

Support features



- » "How-to-do" videos, concept animation, worksheets, manuals & assessment for all experiments & access to students from home as well.
- » Kits with use of eco-friendly & recyclable materials.
- » Dedicated Teacher Support Groups
- » Capacity Building by Teacher Training
- » Curriculum Based Just in Time kits supply avoiding storage
- » Temporary Resident Instructor Support in schools
- » Competitions.



Our Partners

INSTITUTIONS

Cluster
Innovation
Centre



Tech
Mahindra
FOUNDATION


DS DIGITAL
Knowledge - Innovation - Learning



VIGYAN PRASAR
विज्ञान प्रसार

 **IL&FS** | Education

RMX
FOUNDATION OF NEW HOPE
Child Welfare, Education & Skills Training Centre

SCHOOLS



THE SHRI RAM SCHOOL



Mother International School



Oakridge
SCHOOL FOR THE FUTURE



AUROSCHOOLS



Global Indian
International
School



PEARSON



 **indus**
WORLD SCHOOL

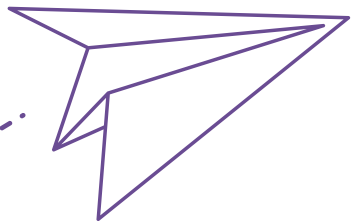


 **mirambika**



Our Presence

**DELHI - NCR | BANGALORE | HYDERABAD |
VISHAKAPATNAM | WARANGAL AHMEDABAD | SURAT |
INDORE | MOHALI | MUMBAI | JODHPUR**



Contact



**ENTECRES LABS PVT. LTD. LGF, C6/B7,
JANAKPURI NEW DELHI - 110058 INDIA**

PHONE: 011-45522986

EMAIL: INFO@ENTECRESLABS.COM

INFO@MYSTEMLAB.COM

