

21st Century Maker Lab

GET **STEM**POWERED

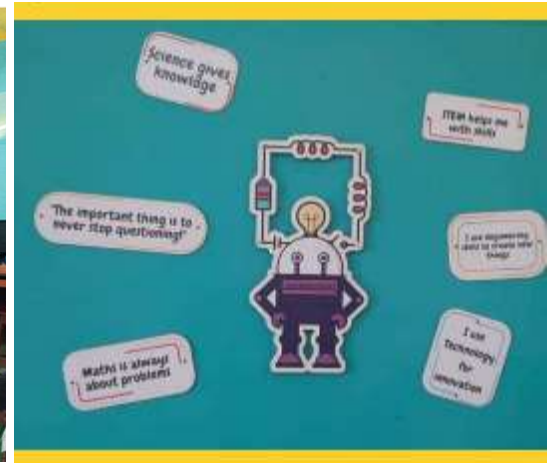
SCIENCEUTSAV[®]
Science is awesome

I'm a
ROBOT
SCIENTIST

SKILL CLUB

MAKER
SCIENTIST
POWERED BY SCIENCEUTSAV

**Maker Lab | Discovery Science Lab | Design Lab |
Basic Electronics | Robotics | IoT | Automation**



21ST CENTURY SKILL LAB

**Transform
Classrooms into
Innovation Hubs**



ITS MY STEM LAB WHERE I AM ..



MAKER LAB

SO I CAN INNOVATE, EXPLORE & SOLVE REAL WORLD PROBLEMS



DISCOVERY LAB

21ST CENTURY SKILL LAB

Building future-ready minds with the maker mindset.



DESIGN LAB

Hub for Project Building Skills



ELECTRONICS LAB

Essential electronics skills for beginners



ROBOTIC LAB

Create simple robots with coding skills



IOT & AUTOMATION LAB

Learn automation with sensors and controllers



AI & CODE CLUB

Programming skills tailored to every age

MAKER LAB

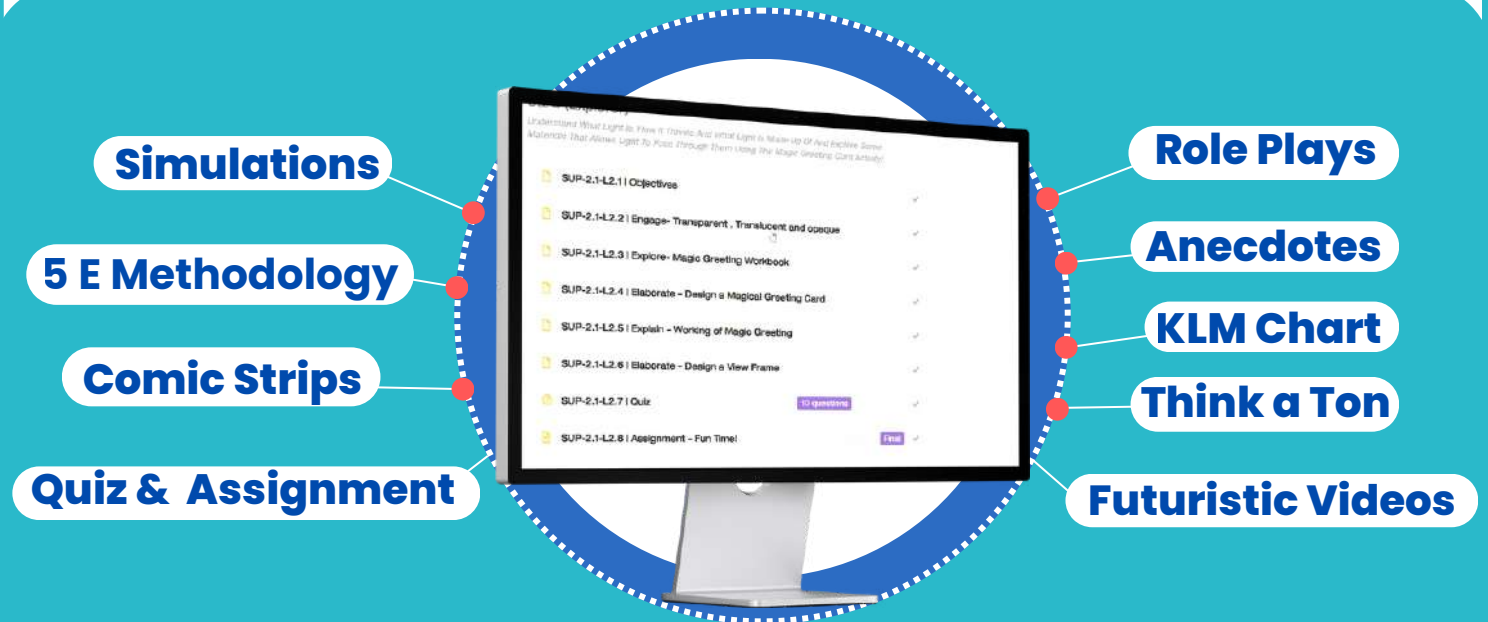
- ⚙ Concepts are aligned with the **School curriculum**.
- ⚙ Transforms textbook concepts into **Tangible experiences**.
- ⚙ Experience Kits, Designed and **Manufactured Kits** In-house.
- ⚙ **8 STEM project-building kits** per grade, annually, for **Grades 1 to 10**.
- ⚙ Training powered by a Learning Management System.

80+ CONCEPT AND MORE THAN 250 PROJECTS TO BUILD



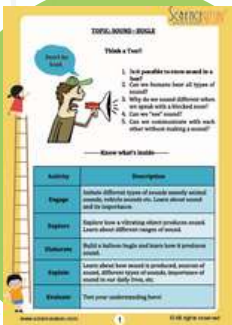
» It's not just a kit... It's a maker lab! «

a complete learning ecosystem



Learning Management System

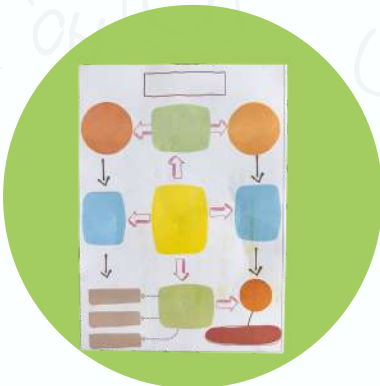
Workbooks



STEM Kit



5 E Pedagogy



Concept Map



Explorer Project

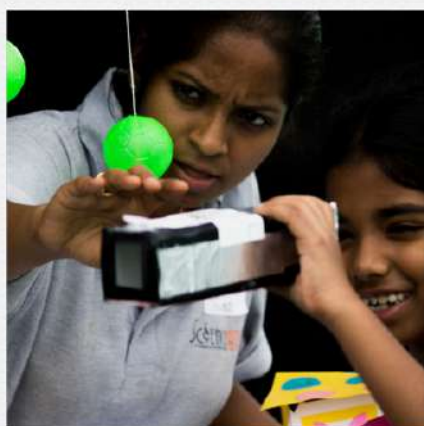


Discoverer Project

Engage > Explore > Explain > Explore > Elaborate



Teacher Training | Explore LMS | Build projects



**Future
Makers
in Action**



DISCOVERY LAB

- Inhouse designed Portable , Scalable and fully equipped **Mobile science Station**
- Focuses on Research based **hands-on experiments for every grade based chemistry, Phsyics, Biology and Astronomy**
- Encourages **curiosity, questioning & investigation**
- **Aligned with curriculum** for progressive exploration

**Customized Mobile
Science Station**

**Teaching Aids | Equipment | Instruments
Consummables | Learning Materials**



123	53	21	8	23	68	39	57	5
D	I	Sc	O	V	Er	Y	La	B
Dilithium	Iodine	Scandium	Oxygen	Vanadium	Erbium	Ytterbium	Lanthanum	Boron



Teaching Aids | Experiment Manuals | Teacher Training



**Learn to
Think like a
Scientist**



SKILL AND DESIGN LAB



- Turns **mechanical, electronic, and fabrication skills** into real-world creations.
- **Progressive kits** from basic tools to advanced prototyping (Grades 6–12).
- **Problem discovery and design thinking** to create innovation for future careers.



**Project
Building tools**

**Materials to
innovate**



Instruments

**Creative
Skills**

**Mechanical
Tools**

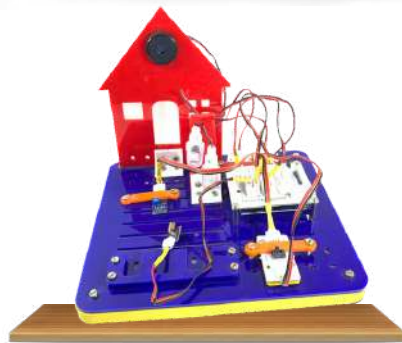
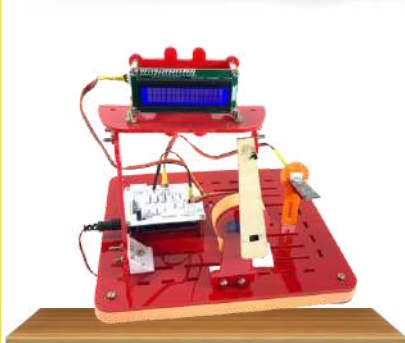
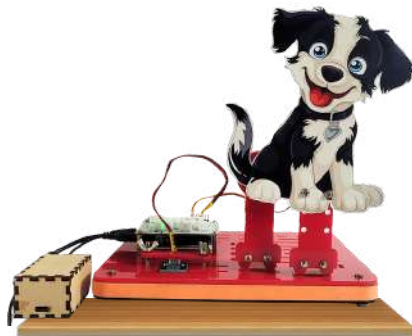


IOT AND AUTOMATION LAB

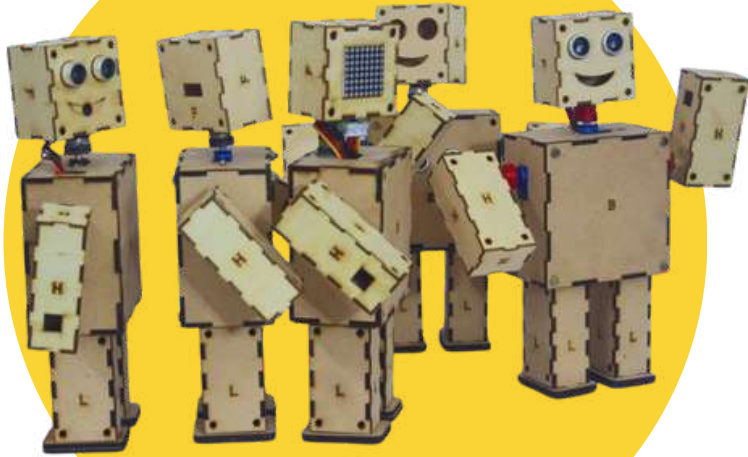
- Turns coding, electronics, and automation into **real-world applications**.
- Progressive kits from basics to advanced automation (**Grades 4–12**).
- Projects with **sensors, actuators, microcontrollers, and coding**.
- Fosters innovation, problem-solving, and a **21st-century maker**



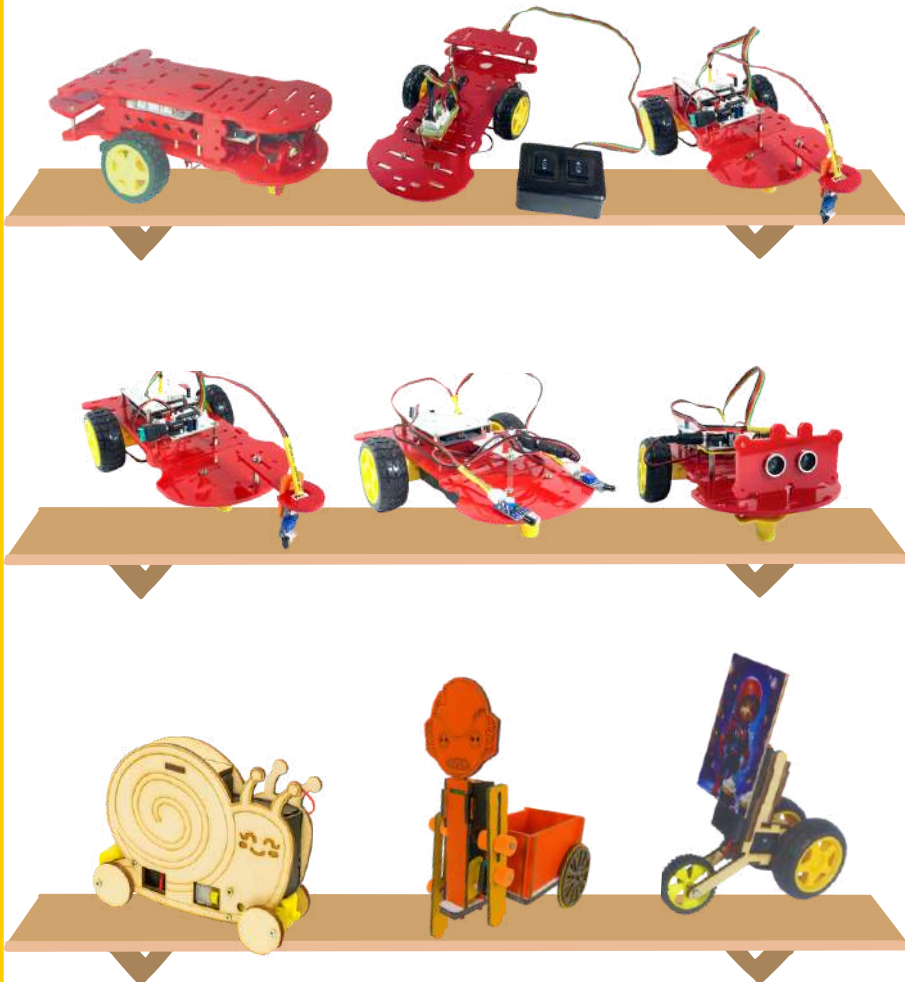
"No breadboards, No jumper wires—just build, code, and run robots that turn ideas into real-world innovations."



ROBOTICS LAB



- Turns **robotics concepts** into real-world bots.
- Projects with **sensors, motors, controllers, and coding.**
- Future-ready skills for **Industry 4.0** and beyond.
- Introduction to **Mechatronics, Mechanism, Servos and Motors**





Teaching Aids | Table Manuals | Teacher Training



**Maker
Mindset to
Innovate**



AI AND CODE LAB



- Turns coding and AI concepts into **real-world applications**.
- Progressive learning from block coding to advanced languages (**Python, Java, C++**).
- Projects using **Scratch, Code.org, PictoBlox, and App Inventor**.
- Builds logic, creativity, and **future-ready problem-solving skills**.



LAB INFRA

- **Vibrant Flooring & Wall Painting** – Inspiring colors and themes to spark creativity.
- **Thematic Lab Stickers & Posters** – Visual guides, STEM concepts, and motivational quotes.
- **Flexible Seating Arrangements** – Collaborative tables and maker-friendly layouts.
- **Racks & Organized Storage** – **Dedicated shelves** for tools, kits, and student projects.
- **Fully Equipped Digital Lab** – **Computers, smart board,** and high-speed internet for research and coding.
- **Maker Workbenches & Tool Stations** – For electronics, robotics, and mechanical assembly.
- **Safety & Utility Setup** – Fire extinguisher, first-aid kit, and proper lighting/ventilation.



SEATING TABLES



SEATING TABLES

DIGITAL INFRASTRUCTURE



SMART BOARD



COMPUTERS



UPS

TRAINING AND DELIVERY

a. Learning Platform will be provided to every school where all the required content, joining links for sessions, study material, assessments, etc.,

Frequently Asked Questions

Tentative Schedule

NOTE: Tentative schedule is subjected to be changed

[Click here for schedule](#)

Hover on the images below and you will find the Next and Previous page buttons on top of the image. Click on these buttons to navigate the FAQ Files



HOW TO OPEN THE PORTAL AND REGISTER FOR C-STEM Workshops

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VJ HOW TO OPEN THE PORTAL AND REGISTER FOR PROGRAM



How to Access C-STEM Sessions & Related Resources

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How to Access C-STEM Sessions & Related Resources

School-Registration

Select Region *

Region

Knowledge Center JNV District *

Select School Name

Note: "School Name" field below is only for students from associated schools. If you are a student from the parent JNV, you may skip this field.

School Name (For Associated JNVs, Kendriya Vidyalayas, Army Public Schools, and State Govt. schools)

Type the Associated School's Name. Eg. - JNV Jamnagar, KV Khamli

Error Number of Students attending *

Note: If individual student attending, enter 1

Choose the Topic *

Choose session you want to watch

Mode of attending session/Quiz *

Choose your mode

[Submit](#)

b. Content: Content related to the Kit is curated based on the 5E Principle

SOURCES OF LIGHT – TORCH LIGHT (EXPLORER 1)

[Home](#)

Curriculum

Before You Start: Important Guidelines

 Understanding Explorer Kit [Preview](#) ✓

 Instructions & Safety: Essential Guidelines [Preview](#) ✓

Torch Light - Explorer

 Objectives [Preview](#) ✓

 Engage : Light [Preview](#) ✓



“

*Let's transform your classrooms
into innovation hubs*

Join

us

for the

Maker

Revolution

