



MAKER LAB

A Maker Space for Future-Ready Minds.



SKILL CLUB



Hands-On Science | **STEAM** | Design & Skill
IoT & Robotics | Basic Electronics | AI & Coding

+91 8105162640

www.sciencecutsav.com

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.



ROBOTIC LAB

Create simple robots
with coding skills



IOT & AUTOMATION LAB

Learn automation with
sensors and controllers



DESIGN LAB

Hub for Project Building
Skills



ELECTRONICS LAB

Essential electronics
skills for beginners



AI & CODE CLUB

Programming skills tailored to
every age

1. 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



2. DISCOVERY LAB

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

**Customized Mobile
Science Station**

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



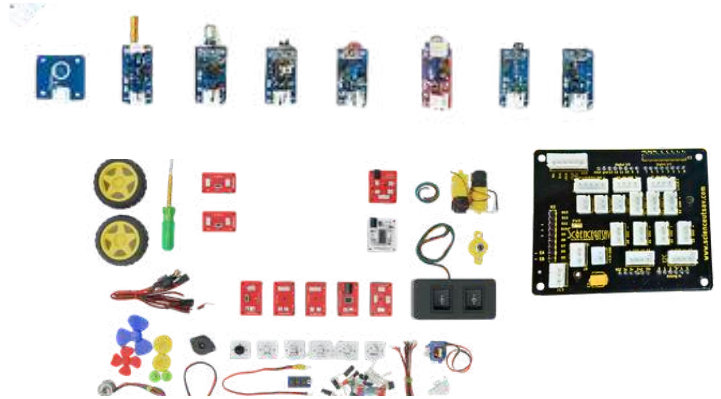
123	53	21	8	23	68	39	57	5
D	I	Sc	O	V	Er	Y	La	B
Dillithium	Iodine	Scandium	Oxygen	Vanadium	Erbium	Ytterbium	Lanthanum	Boron

ROBOTICS, IOT & AUTOMATION LAB

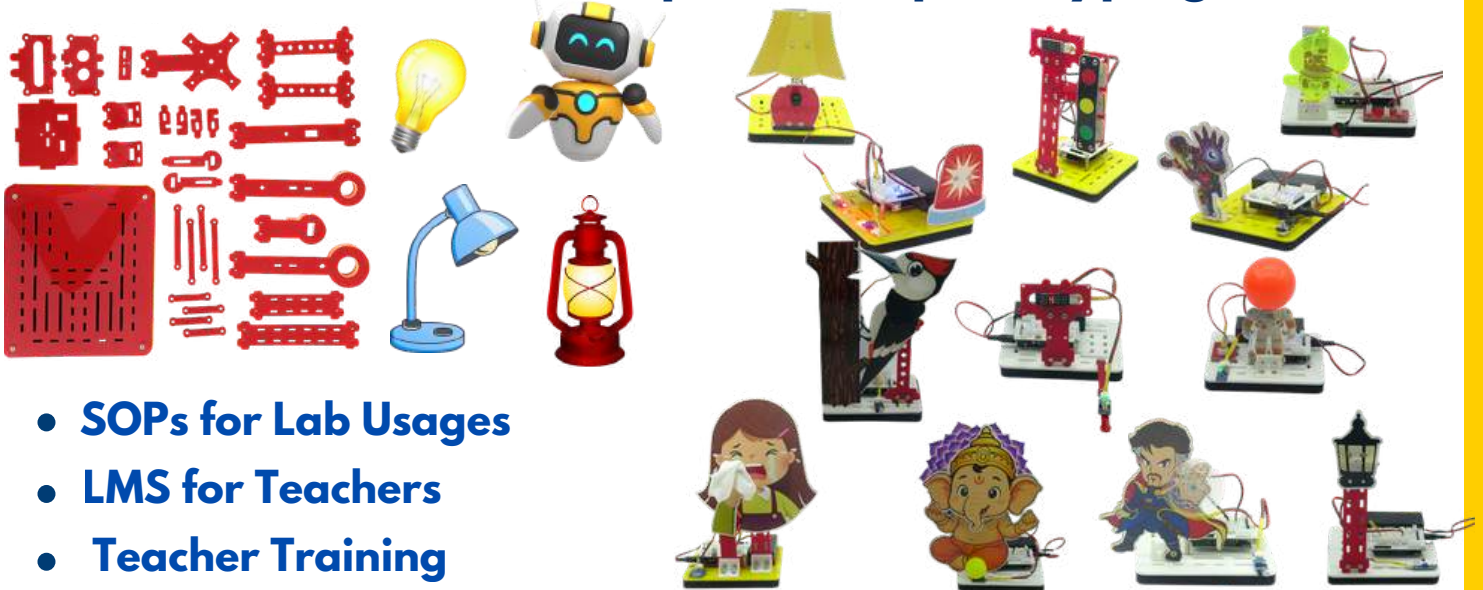
Microcontroller and Shield



Sensor-Based IoT Kit

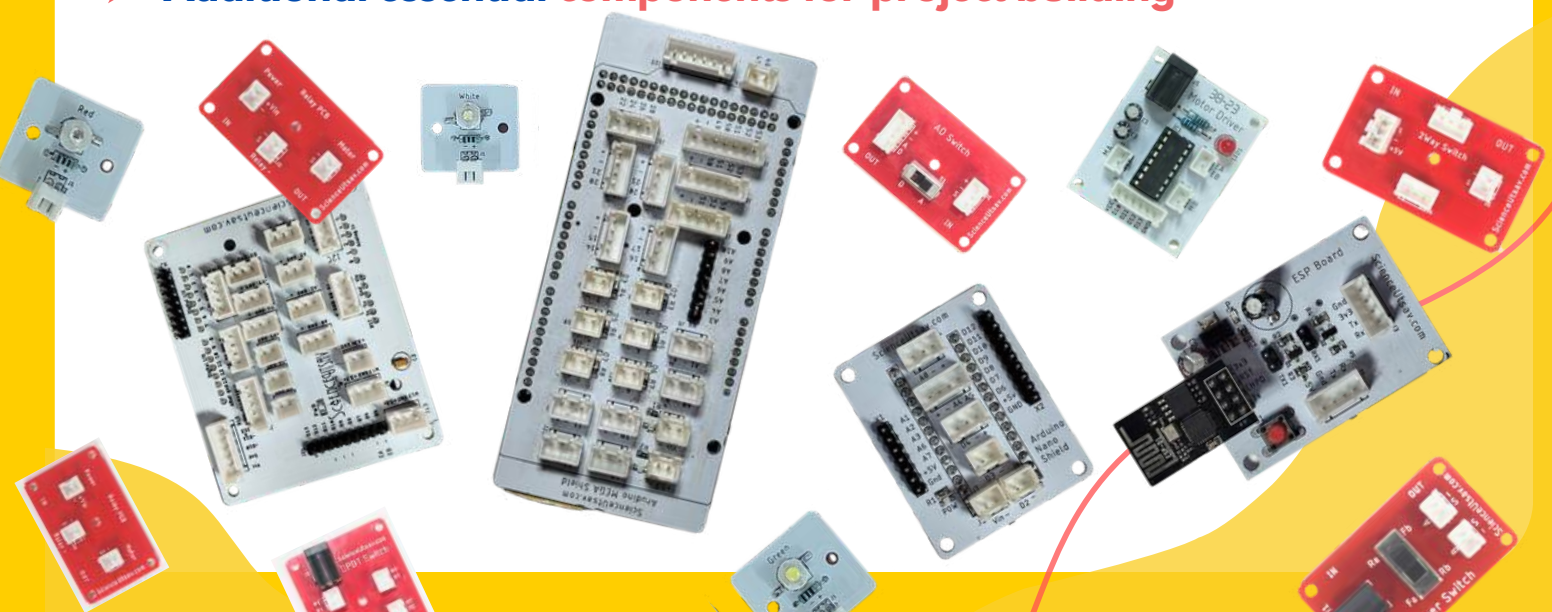


Structure and Templates for prototyping

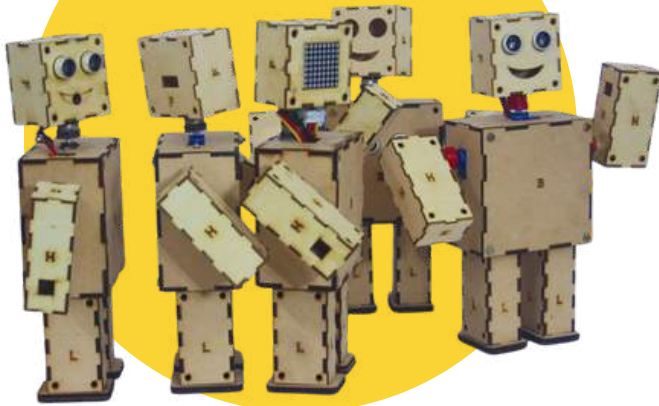


- SOPs for Lab Usages
- LMS for Teachers
- Teacher Training

- Customised **Microcontroller Shield** for easy connection
- Input devices such as **Sensors** and **Switches**
- Output devices including **Motors, Displays, Buzzer, Speakers** and **LEDs**
- Communication modules like **Wi-Fi, Bluetooth, and RF**
- **I2C, SPI, UART** and other serial communication devices
- Additional essential **components** for project building



3.ROBOTICS LAB

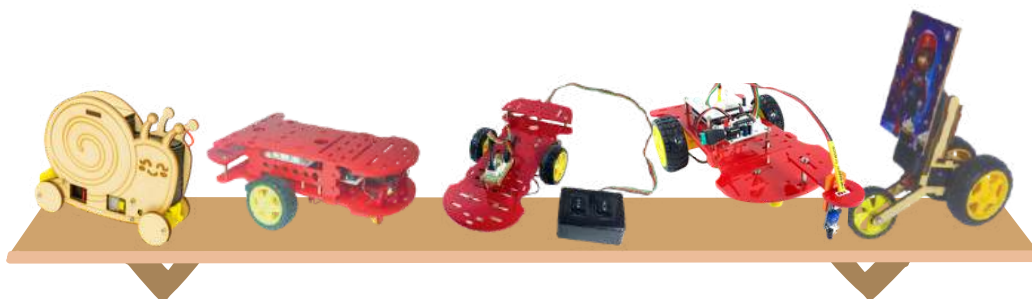
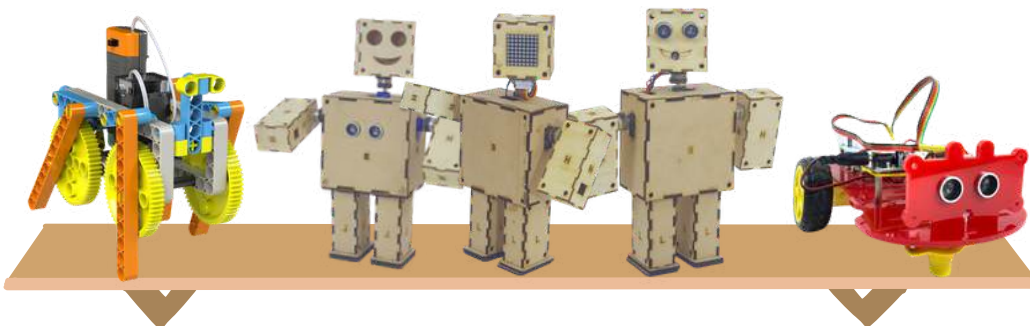
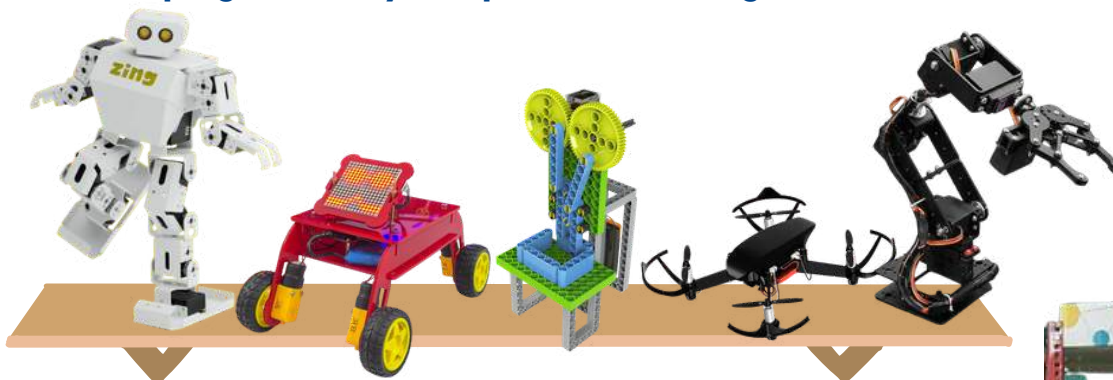


- Turns **robotics concepts** into real-world bots.
- Projects with **sensors, motors, controllers, and coding.**
- Future-ready skills for **Industry 4.0** and beyond.
- Introduction to **Mechatronics, Mechanism, Servos and Motors**

👉 Build 20+ exciting robots — from Line Following and Light Following to Wi-Fi powered machines

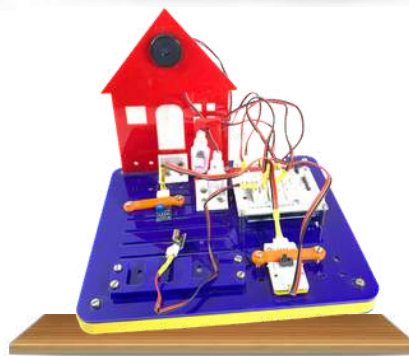
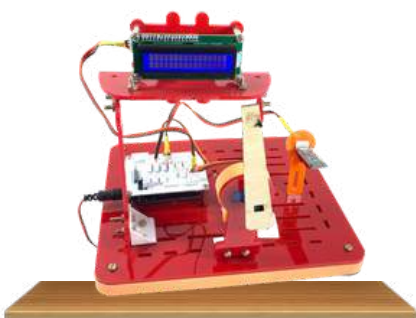
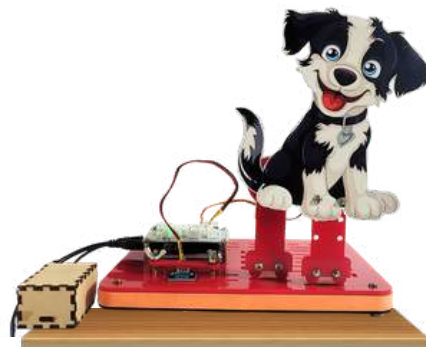
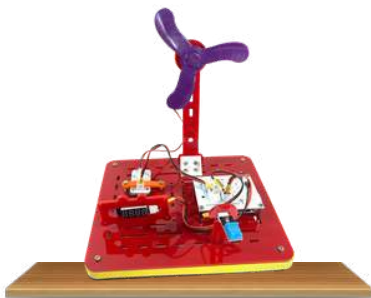
👉 Create Gesture, Voice, and Gyro Controlled Robots with real-world applications

👉 Explore advanced builds like Humanoids, Robotic Arms, Drones, while developing creativity and problem-solving 🚀

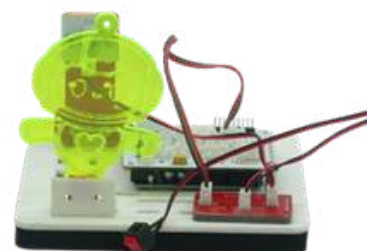
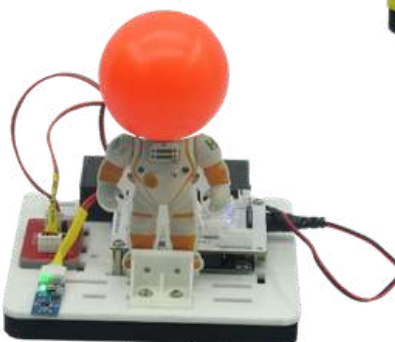


4. IOT AND AUTOMATION LAB

- Turns coding, electronics, and automation into **real-world applications**.
- Progressive kits from basics to advanced automation (**Grades 6–12**).
- Projects with **sensors, actuators, microcontrollers, and coding**.
- Fosters innovation, problem-solving, and a **21st-century maker mindset**.



4.IOT AND AUTOMATION LAB



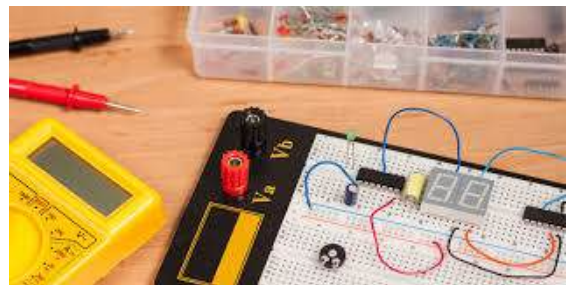
5. BASIC TOOLS & CONSUMMABLES

- 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.
- Corrugated sheets, peg Boards, Templates, Glues and Gums, Fasteners to create the real world projects



6. TINKERING LAB

- 👉 Advanced Tools & Machines — 3D printers, power tools, soldering stations, multimeters, and precision equipment for real-world prototyping
- 👉 Hands-on Fabrication Ecosystem — Wood, metal, piping work with vices, clamps, electronics components, and consumables for building functional models
- 👉 Innovation & Design Thinking — Structured kits and challenges to identify problems, prototype solutions, and build future-ready skills 🚀



7.STEM LAB INSTALLATIONS

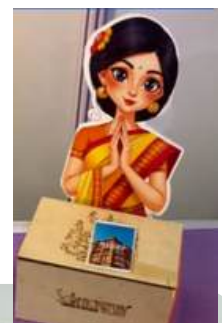
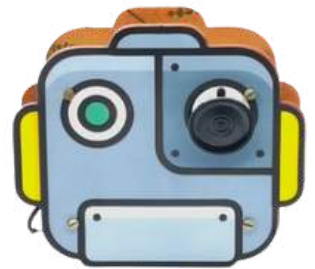


7.STEM LAB INSTALLATIONS

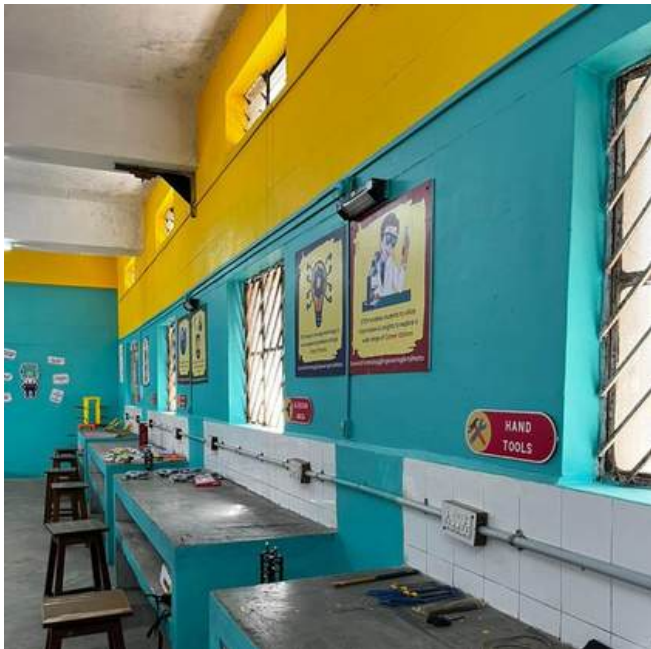
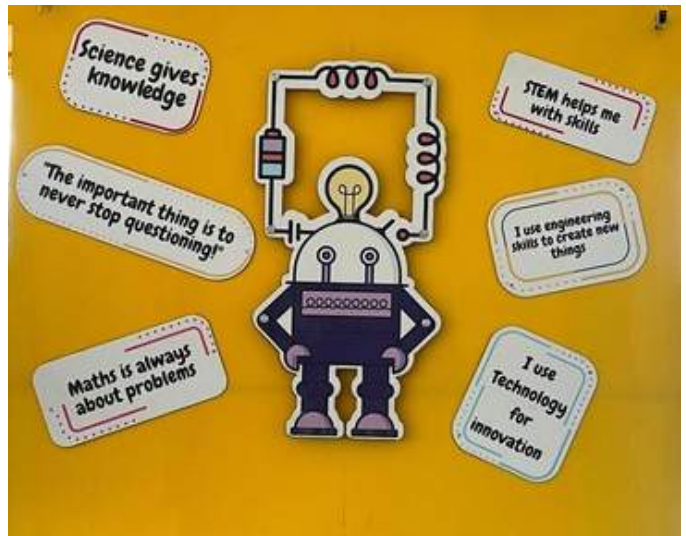
👉 **Inspiring Lab Space** — Attractive walls and visuals that make students excited to learn

👉 **Well-Organized Setup** — Clean layout with proper storage and easy-to-use work areas

👉 **Fun & Engaging Environment** — A space where students enjoy building, exploring, and creating 🚀



7.STEM LAB INSTALLATIONS



8.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, ergonomic chairs, 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

9.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**.



10.DIGITAL MEDIA LAB

- 👉 **Complete Media Setup** — TV, camera, mic, speakers, lighting, and tripods for recording and presentations
- 👉 **Create & Express Ideas** — Students can make videos, podcasts, and digital content with ease
- 👉 **Build Future Skills** — Learn communication, storytelling, and media skills for the digital world 🚀



11. 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

ScienceCutsav

Copyright by ScienceCutsav. All rights reserved.

VJ HOW TO OPEN THE PORTAL AND REGISTER FOR PROGRAM



How to Access C-STEM Sessions & Related Resources

ScienceCutsav

Copyright by ScienceCutsav. All rights reserved.

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 Jammu-II, KV Khari

Enter Number of Students attending *

Note: If individual student attending, enter 1

Choose the Topic *

Choose session you want to watch

Mode of attending sessions/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](#) ✓





Teaching Aids | Table Manuals | Teacher Training



**Maker
Mindset to
Innovate**





Teaching Aids | Table Manuals | Teacher Training

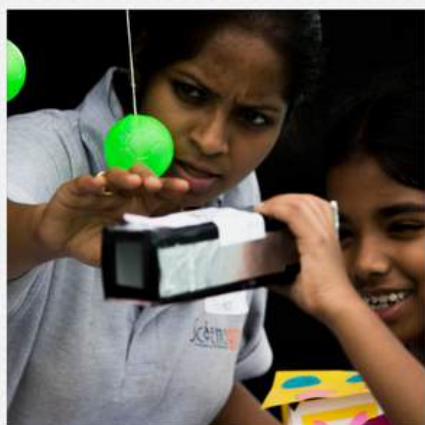


»»» **Learn to**
»»» **Think like a**
»»» **Scientist**





Teacher Training | Explore LMS | Build projects



**Future
Makers
in Action**



“

*Let's transform your classrooms
into innovation hubs*

Join

us

for the

Maker

Revolution

