EDUNIQUE

ROBOTICS & AI STEM LAB

Unlock the Future of Innovation:
Hands-on learning, cutting-edge technology, and endless possibilities await!

+91 9773743007

www.stemlabsupgrade.com

Who is Edunique?

EduNique is the 1st Intelligent AI and Human blended online and offline educational platform that embraces, recognizes and harnesses the power of a child and also polish the skills to revolutionize the way children go through their educational journey, both in online and offline settings. The core philosophy behind EduNique is to provide a transformative educational experience for each child. We provide STEM Programs, Skill and Brain enhancement Clubs at school across Asia.

EduNique's approach is to offer comprehensive, tailored learning programs according to age, personality, emotional intelligence and environment. These programs are specifically designed to match the unique learning styles and challenges of each batch of student. We believe that learning should be an enjoyable and fulfilling for every child. Our mission is not only to make learning fun but also highly applicable in the future of students and effective in helping students achieve their educational goals.

We are committed to help students excel academically, develop essential life skills, foster creative thinking, enhance logical reasoning abilities, and stimulate cognitive growth. These goals are at the heart of our educational philosophy.

Edunique has been Featured In

BS · NEWS TRACK · Outlook · ANI NEWS INDIA · Ahmedabad Mirror · Google News · ET · Topics EVERYDAY · The Print · THE HINDUSTAN EXPRESS

Why EduNique ?

STEM Diploma

Scratch Programming

AR/VR

Animation

Coding

Microbit

HTML

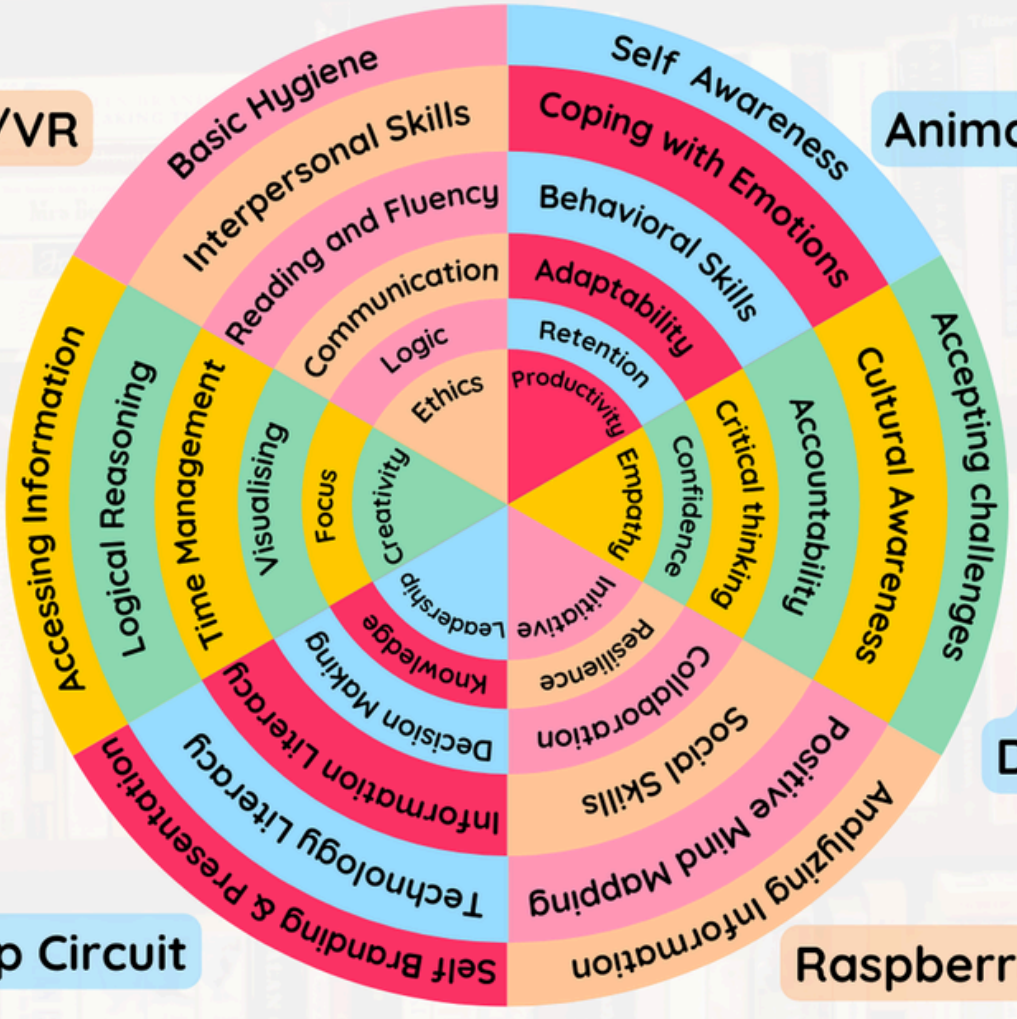
Drone Designing

Snap Circuit

Raspberry Pi

Artificial Intelligence

Ardunio Programming



21 Skills : One course

eDUniQUe

Concept of Robotics & AI STEM Lab ?

A Robotics & AI STEM Lab is an initiative aimed at improving students' practical learning experiences by offering hands-on training in various skills. These labs are designed to equip students with the knowledge and expertise that align with industry standards, preparing them for diverse career opportunities and enhancing their employability.

It is also leading to development of curiosity, inquisitiveness, critical thinking, problem solving, imagination, questioning & exploration skills among students for innovation, designing & creating, testing & modifying solutions to complex problems.

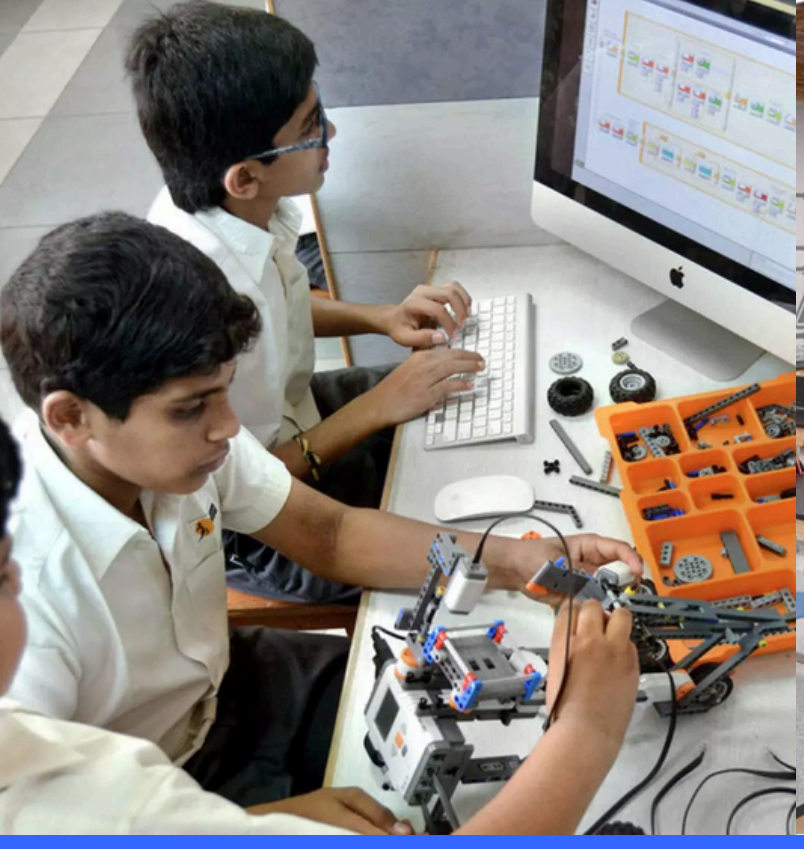
Why Robotics & AI STEM Learning?

The National Education Policy (NEP) 2020 places a strong emphasis on vocational and skill-based education. The objective behind this is to integrate vocational training into mainstream education, ensuring that every student has access to skill development from an early age.
Key measures under this policy include establishing skill development centres nationwide, providing opportunities for internships & apprenticeships.

Benefits of NEP's Skill Building Initiatives

The NEP emphasis on vocational and skill-based education to equip students with industry-relevant skills, enhancing their employability & career prospects. Here are few of the benefits:

- Increased employability
- Hands-on training
- Industry exposure
- Higher earning potential
- Entrepreneurial opportunities
- Improved critical thinking
- Adaptability in the job market



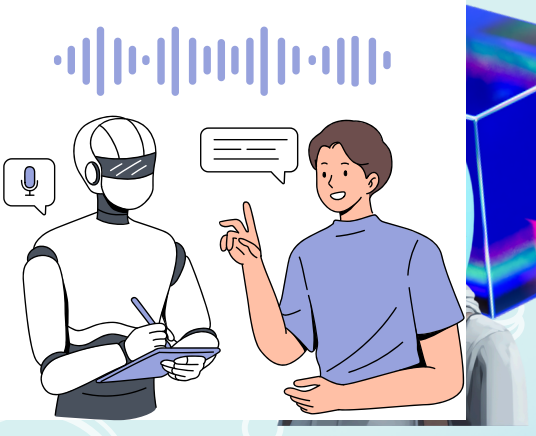
Process of Setting up a Robotics & AI STEM Lab

- EduNique will provide the entire set up like Hardware, DIY Kits, Software and worksheets (at 50% market cost).
- The entire program can be mapped from a portal for the school ,parents & students. The Composite Skill STEAM program provides 50 activities for the Practical Application of all the CBSE/IB curriculum concepts And also the application of NEP policy.
- EduNique shall provide trained staff and training with necessary expertise to run the lab throughout the year.
- Through this program, children also get an international platform to create out of the box projects and display in our interntaional exhibitions. These are conducted in Dubai and Singapore every year in the month of October.

AI CURRICULUM

1. Artificial Intelligence - With MBlock (Basics)

- **Unit 1** : AI Service
- **Unit 2** : Teachable Machine
- **Unit 3** : Speech Recognition
- **Unit 4** : Text Recognition
- **Unit 5** : Image Recognition
- **Unit 6** : Human Body Recognition
- **Unit 7** : Natural Language Processing



2. Artificial Intelligence - (Intermediate)

- **Session 1** : Introduction to AI
- **Session 2** : How does the human brain identify objects?
- **Session 3** : How does the human brain estimate & predict?
- **Session 4** : Making a machine identify objects?
- **Session 5** : Importance of data for AI
- **Session 6 & 7** : Course Project 1
- **Session 8** : Making a machine learn and predict outcomes
- **Session 9 & 10** : Course Project 2
- **Session 11** : Making a machine do image recognition - A
- **Session 12** : Making a machine do image recognition - B
- **Session 13** : Final Course Project

3. Artificial Intelligence - (Masters)

- **Module 1** : **Fundamentals of Python Programming**

Outcome :

- Students will understand Python programming language & its syntax.
- Students will understand basic Python data types & operations.
- Students will understand Python advanced data types like lists & dictionary.
- Students will understand how to write Python programs.

- **Module 2** : **Understanding Python Analysis Packages**

Outcome :

- Students will understand the numerical analysis methods & functions using Numpy.
- Students will understand graphical representation methods & functions using Matplotlib.

- **Module 3 : Machine Learning using Python Programs**

Outcome :

- Students will understand machine learning Python package & its classes & functions.
- Students will understand how to add datasets in Python projects.
- Students will understand the machine learning process flow with Python.
- Students will understand different algorithm implementation using Python package.
- Students will understand performance metrics of algorithms.

- **Module 4** : **EduNique AI tool Programming Mode - Regression & Classification**

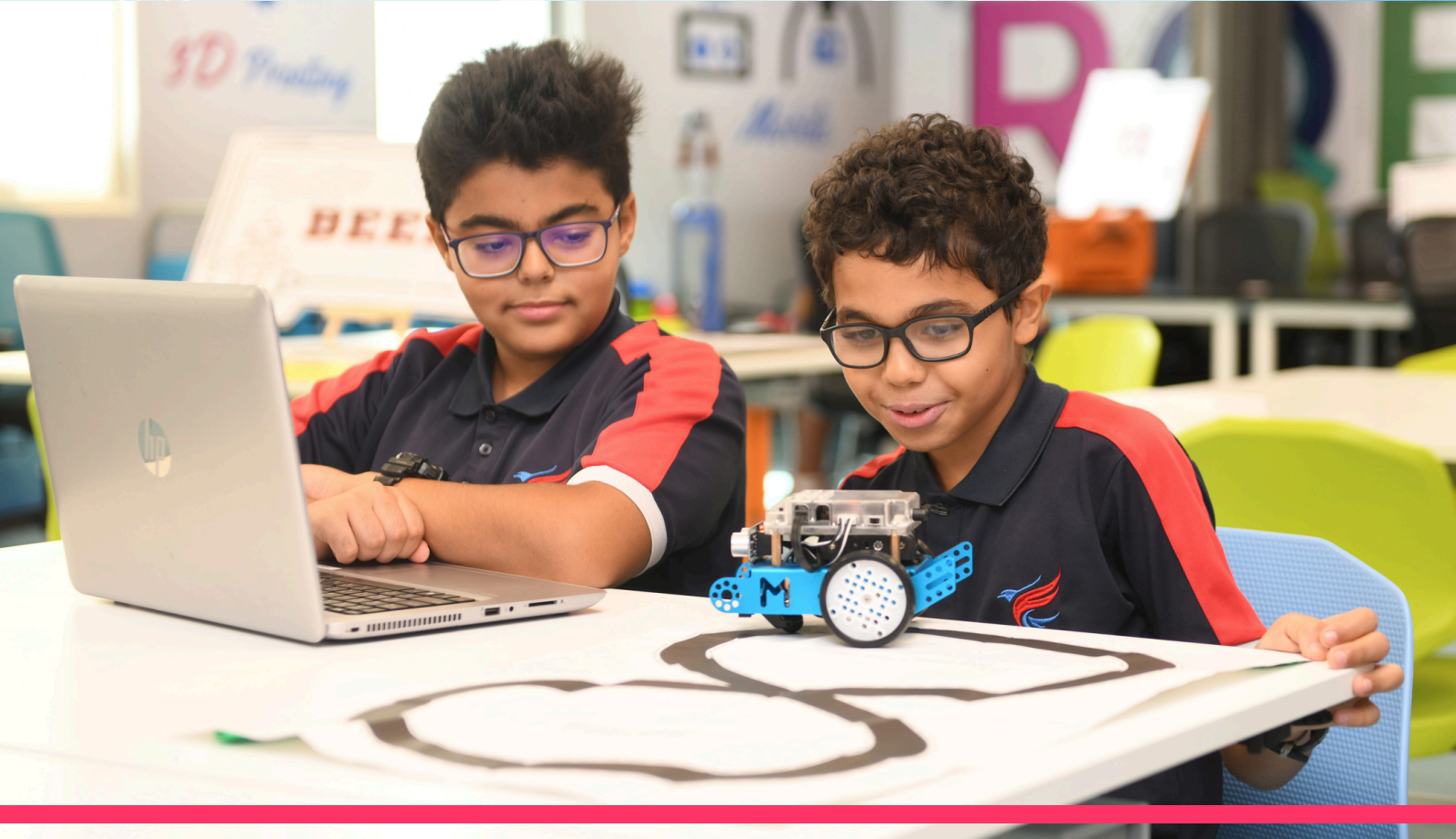
Outcome :

- Students will understand the simple machine learning process flow using EduNique AI tool programming mode.
- Students will understand the advanced configurability achieved in programming mode.

- **Module 5** : **EduNique AI tool Programming Mode - Image Recognition**

Outcome :

- Students will understand the simple image recognition process flow using EduNique AI tool programming mode.
- Students will understand the advanced configurability achieved in programming mode.

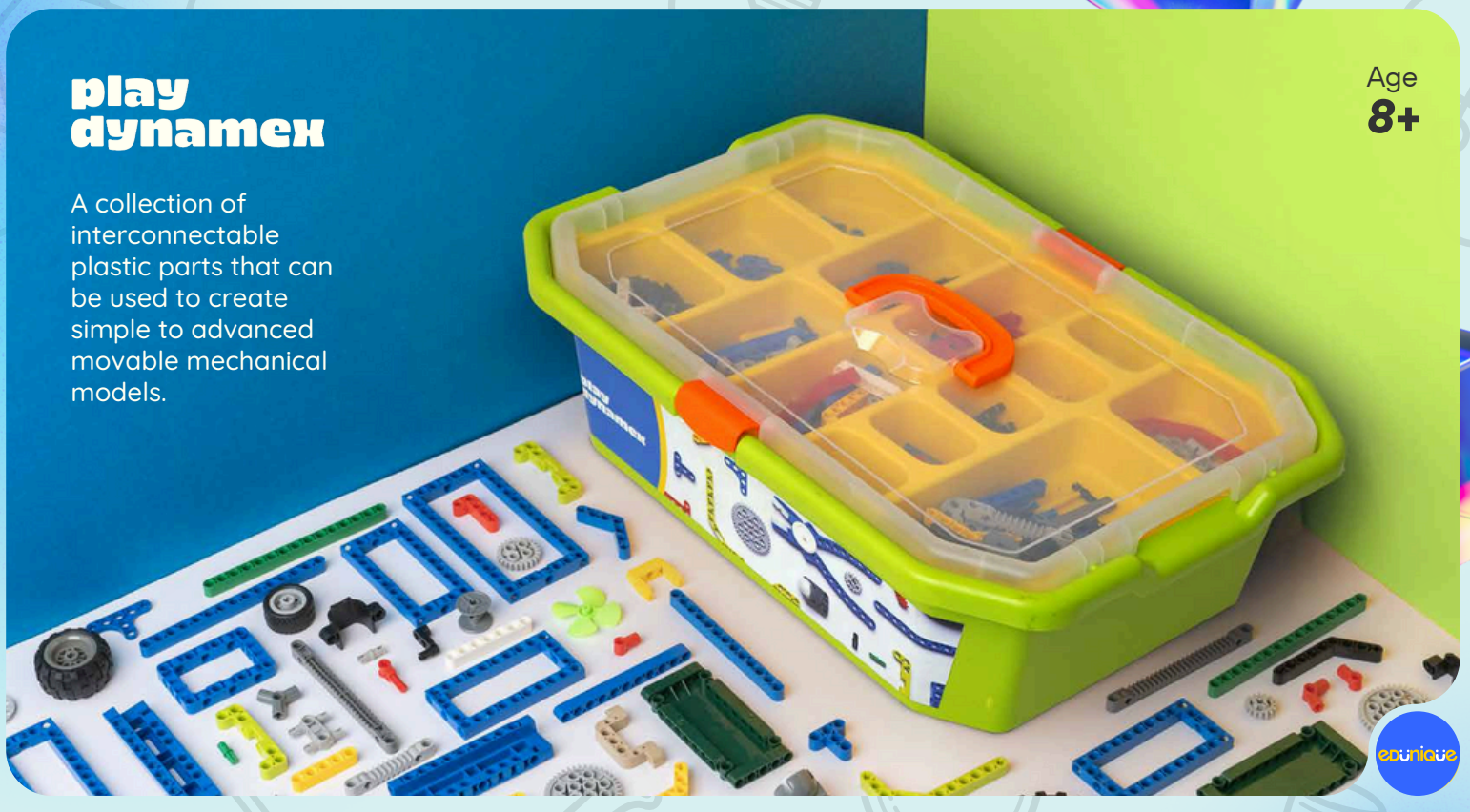


edunique

play dynamex

Age
8+

A collection of interconnectable plastic parts that can be used to create simple to advanced movable mechanical models.



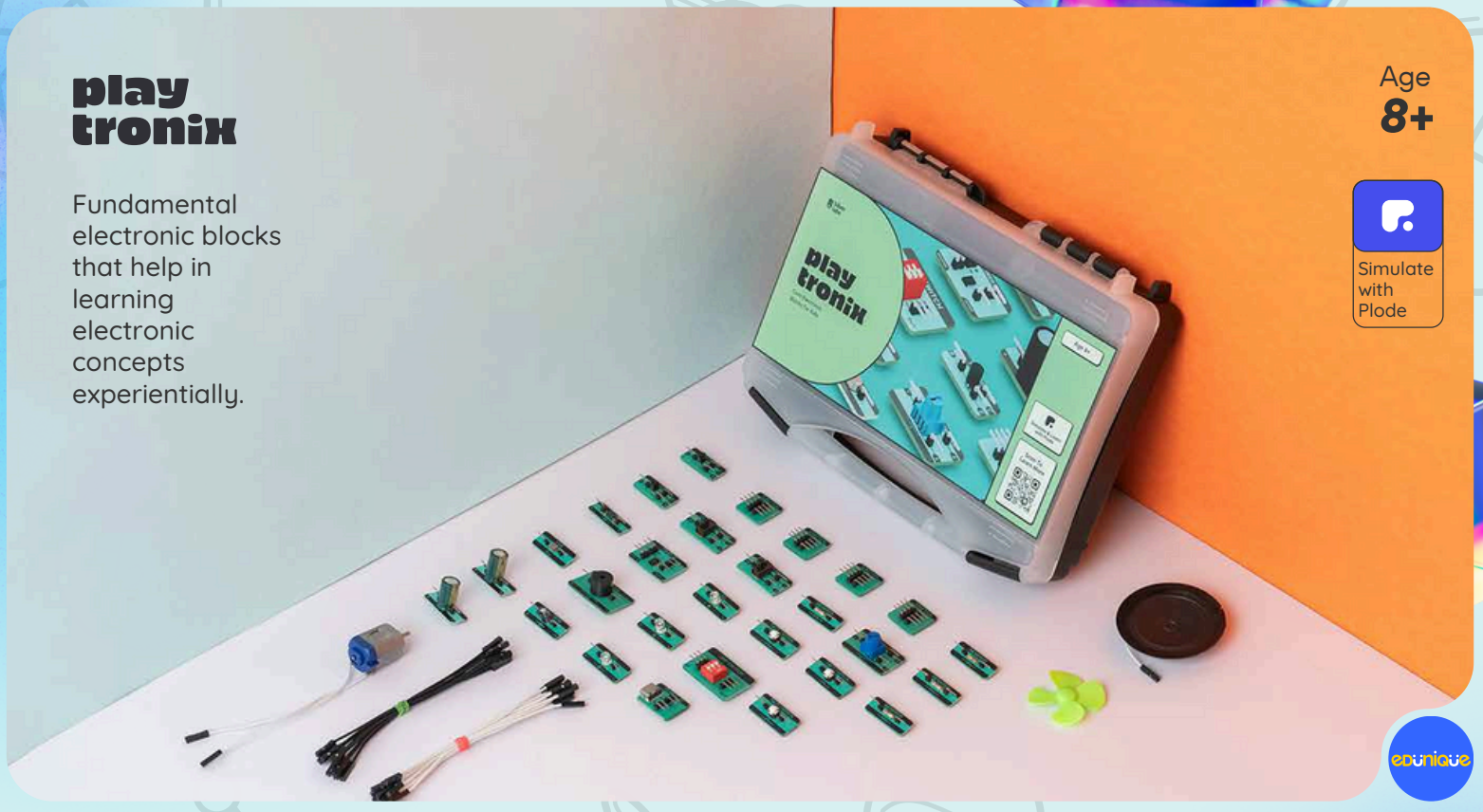
- 435+ Components
- 110+ Unique High-quality Blocks
- PeeCee Computational Kit -2 Compatible
- Open-ended and Flexible
- Simulation for Ease of Construction
- Develop Spatial Thinking Skills
- Grade 3-9 Mechanics and Robotics Curriculum

play tronix

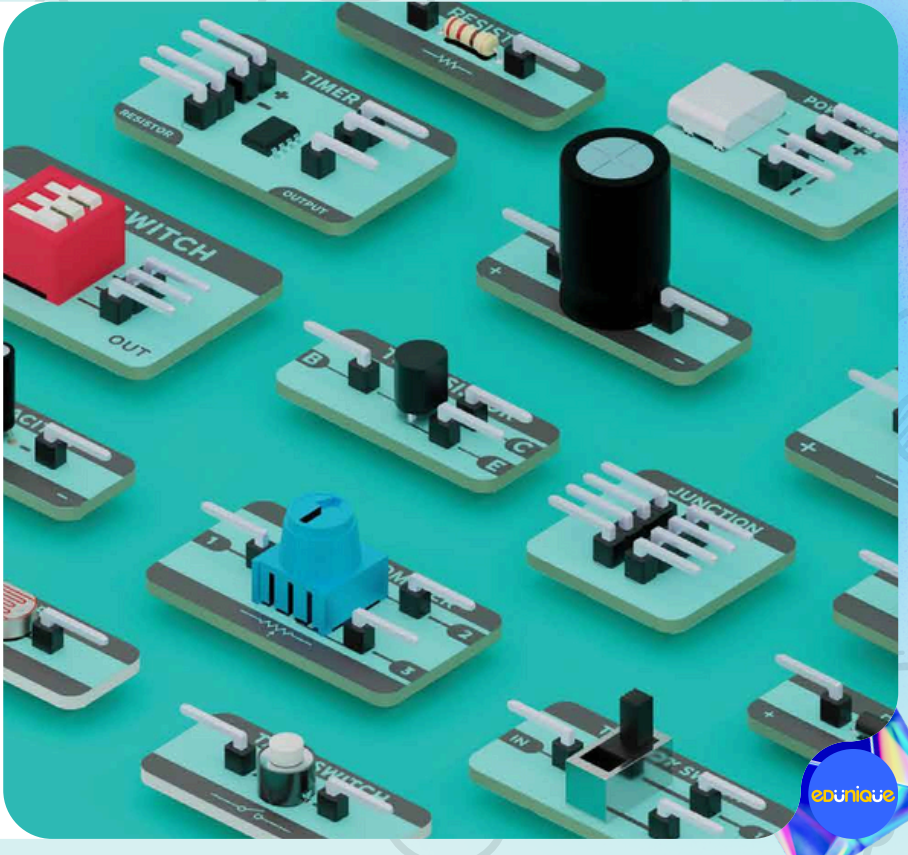
Fundamental electronic blocks that help in learning electronic concepts experientially.

Age
8+

Simulate with Plode

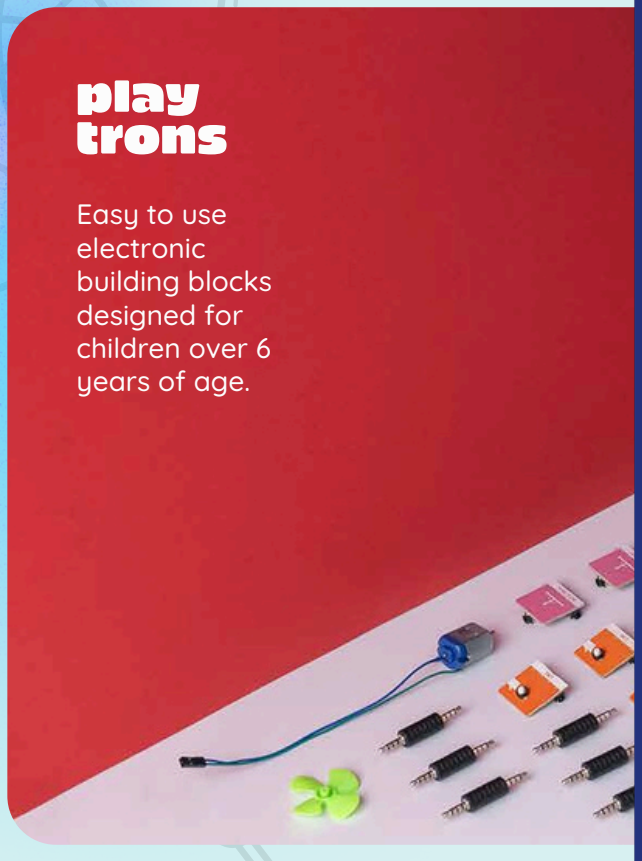


- 50+ components
- 7 Input and 6 Output Modules
- USB-C based Power Connector
- Open-ended and Flexible
- Simulation for Ease of Construction
- Inclusive of Resistors, Diode, Transistors and more
- Grade 3-9 Elemental Electronics Curriculum



play trons

Easy to use electronic building blocks designed for children over 6 years of age.



34+ Components

9 Input and 7 Output Modules

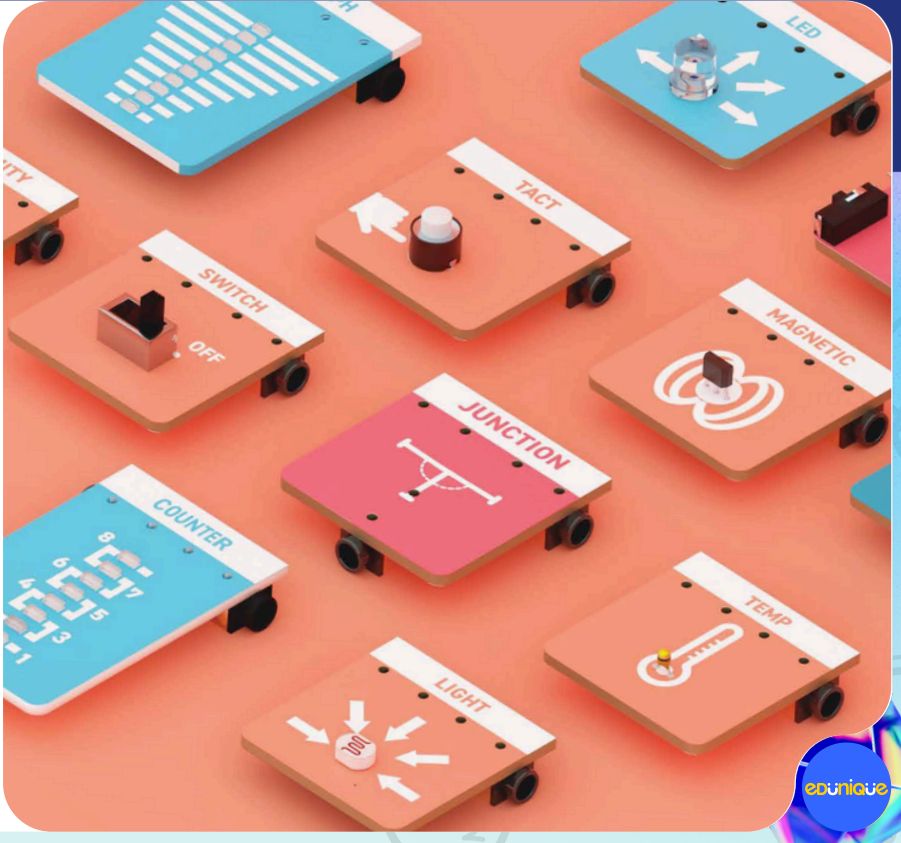
USB-C based Power Connector

Open-ended and Flexible

Simulation for Ease of Construction

Inclusive of Resistors, Diode, Transistors and more

Grade 1-3 Playfully Crafted Curriculum



roboki-t1

A collection of interconnectable plastic parts along with fun characters that can be used to create simple models for kids.

Age
8+

- Powerful Codable Brick
- Wireless Code and Control
- Strong Durable Geared Motors
- Smart Plug Sensors
- Solid Plastic Chasis Blocks
- Plug and Play Ports & Fleximove Connectors
- Long Running Rechargable Li-Ion battery
- Big Sturdy Wheels

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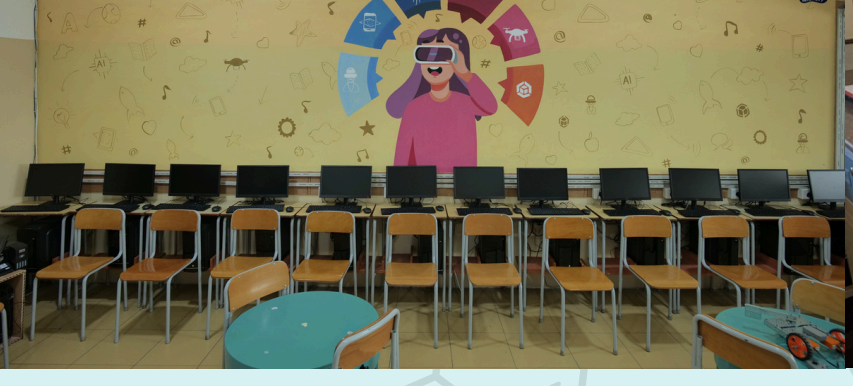

Thank You

Contact Us

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