EduMEasy

एड्यू एम इज़ी

Math-Lab

(A Comprehensive Math-Lab for Schools)

EduMEasy Presents one-of-a-kind Equipments to make Mathematics

| Fun | Enjoyable | Easy | Accessible |

Explore every chapter of NCERT book with these equipment

Bringing a revolution in how we learn mathematics

"I feel all mathematics is recreational. You have to see the fun side of what you are doing to really become passionate about it. For me, mathematics is always a fun.

Unfortunately, usual mathematics curriculum does, not too much of that and that is the reason youngsters are scared of that. Teaching mathematics in puzzle, in magic, in music... that helps you see the fun side."

- Manjul Bhargava
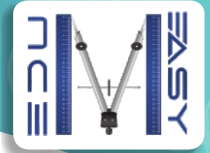(Field Medalist and Committee Member, NEP)

Visualization and experimentation are two important aspects of teaching mathematics.

In their paper, Rosken and Rolka (2006) concluded that

- A picture is worth a 1000 words, if one is aware of its scope.

- A picture is worth a 1000 words, if one is able to use it flexibly.

Researchers observed that understanding patterns and visualization help a student learn even complex mathematics and apply them to new problems.
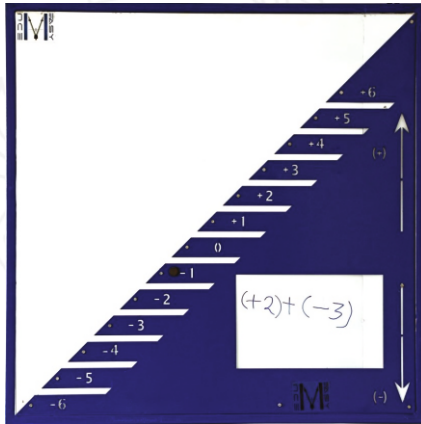
EQUIPMENT

(i) NUMBER SYSTEM OPERATOR (N)

A positive or a negative outcome is always a problem in using operations between numbers. This operator helps in learning the concept by doing simple experiments.

CLASS →	6	7
CHAPTERS →	WHOLE NUMBERS INTEGERS	INTEGERS

(ii) ALGEBRA ANNOTATOR (A)

The biggest challenge in learning algebra is understanding the operations such as addition, subtraction, multiplication and division of the variables and functions of the variables. The algebra annotator helps in the exercises involving variables.
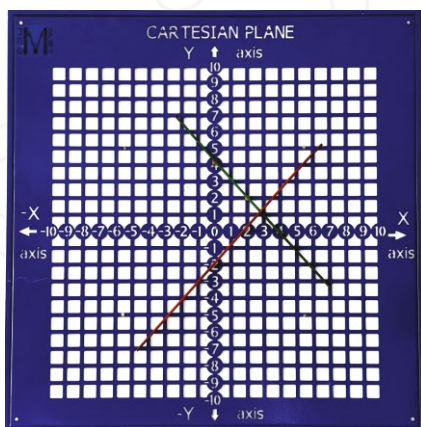
CLASS →	6	7	8	9
CHAPTERS →	ALGEBRA	SIMPLE EQUATION ALGEBRAIC EXPRESSIONS EXPONENTS AND POWERS	LINEAR EQUATION IN ONE VARIABLE ALGEBRAIC EXPRESSIONS EXPONENTS AND POWERS FACTORISATION	POLYNOMIAL PROBABILITY

(iii) CO-ORDINATE SYSTEM DEMONSTRATOR (CL)

The basis of co-ordinate geometry is the co-ordinate system. For understanding the different quadrants and co-ordinates in a two dimensional plane, this system demonstrates several different properties to visualize the co- ordinate geometry.

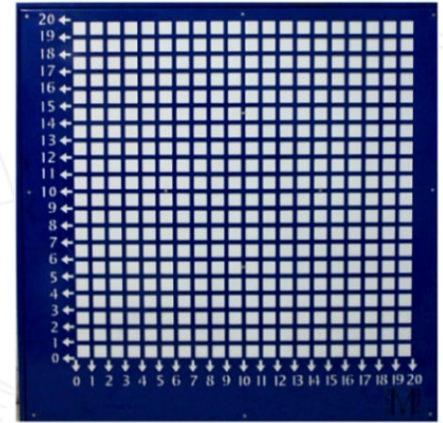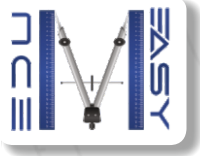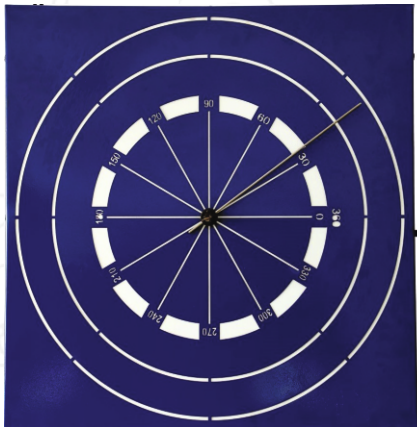| CLASS →	6	7	8	9	10
CHAPTERS →	PRIME AND COMPOSITE NUMBER DECIMALS RATIO AND PROPORTION	RATIONAL NUMBERS	SQUARE AND SQUARE ROOTS CUBE AND CUBE ROOTS DIRECT AND INVERSE PROPORTION	NUMBER SYSTEM COORDINATE GEOMETRY LINEAR EQUATION IN TWO VARIABLES	REAL NUMBERS PAIR OF LINEAR EQUATIONS QUADRATIC EQUATION POLYNOMIALS ARITHMETIC PROGRESSION COORDINATE GEOMETRY STATISTICS

(iv) MENSURATION EVALUATOR (M)

Measurement of perimeter and area is one of the most interesting exercises in Mathematics, if understood properly. The evaluator will help the teacher to demonstrate the concepts and will also help the students to learn the concepts by doing some hands on.

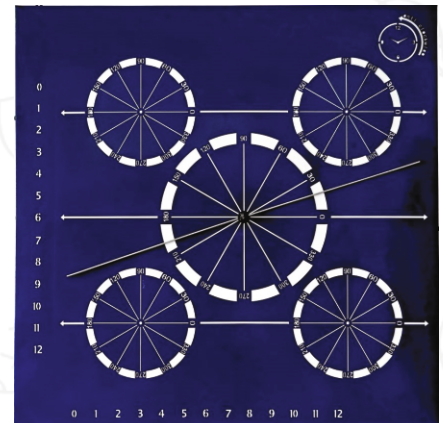| CLASS →	6	7	8	9
CHARTERS ↳	PLAYING WITH NUMBERS DATA HANDLING MENSURATION	DATA HANDLING PERIMETER AND AREA	INTRODUCTION TO GRAPHS MENSURATION	HERONS FORMULA STATISTICS AREA OF A PARALLELOGRAM AND TRIANGLE

(v) CIRCLE DESCRIPTOR (C)

It starts and ends at the same point. The circle is one of the most beautiful geometrical figure which has several good characteristics.

However, understanding the properties and theorems is a herculean task. The descriptor is designed for doing some experiments for learning the circle in linear manner.

CLASS →	6	7	8	9	10
CHAPTERS ↳	FRACTIONS	FRACTIONS COMPARING QUANTITIES	COMPARING QUANTITIES	CIRCLES CONSTRUCTION	AREA RELATED TO CIRCLE PROBABILITY CONSTRUCTION CIRCLES

(vi) GEOMETRY EXPOSITOR (G)

Bothered about understating the statements and proofs of theorems! No worries, this one equipment is the solution bank of all geometrical concepts. Starting from understating the angles between two lines to visualizing the properties of parallel lines and triangles, this single equipment is loaded with a number of activities to excite the students.

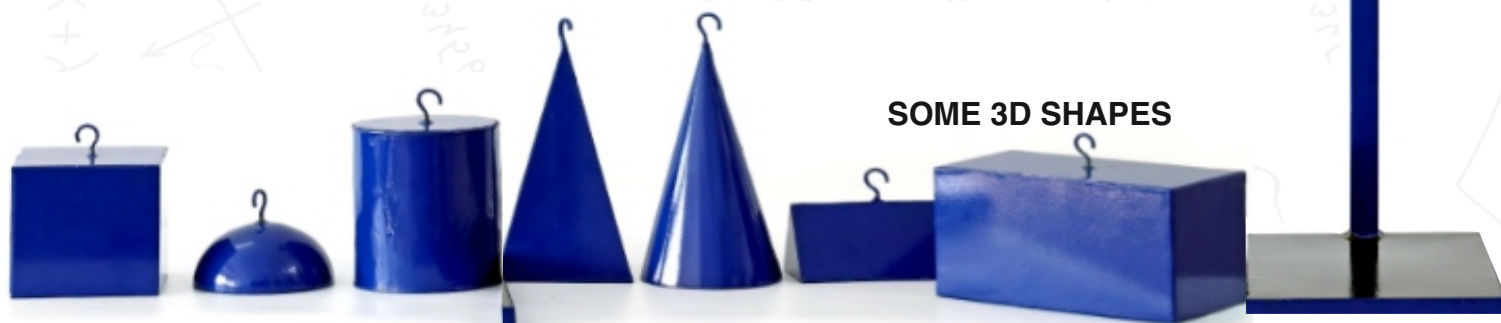| CLASS →	6	7	8	9	10
CHAPTERS →	BASIC GEOMETRY IDEA UNDERSTANDING OF ELEMENTARY SHAPES SYMMETRY PRACTICAL GEOMETRY	LINES AND ANGLES CONGRUENCE OF TRIANGLES PRACTICAL GEOMETRY SYMMETRY	QUADRILATERALS	INTRODUCTION TO EUCLID'S GEOMETRY LINES AND ANGLES TRIANGLES QUADRILATERALS	TRIANGLES INTRODUCTION TO TRIGONOMETRY

ACCESSORIES

Magnetic stick

Tripod stand

Triangular plates

BAR graph plates

SOME 3D SHAPES

FEATURES

01 6 Equipment that cover chapters from NCERT books of Class 6th to Class 10th

02 Accessories for all the equipment.

03 Class wise study manuals for teachers with STEP BY STEP guide to all the experiments.

04 Access to the videos of all the experiments.

05 Training session for the teachers.

06 Tripod-Stands to place and move the equipment.

07 2 year warranty on all the equipments.

08 Hassle Free Online Support

+IME

CERTIFICATE OF PARTICIPATION

UNISON
WORLD SCHOOL

This is to certify that

Vivek Kumar Sahu

IIT Jodhpur

has participated and presented a paper titled
'Math lab: learning math by doing math'
in the International Conference on Technology and Innovation in Mathematics Education (TIME 2021)
held online during 17-19 December, 2021.

_____
Prof. Inder K. Rana
(Ex. IIT Bombay)
Convener, Organizing Committee, TIME 2021

_____
Dr. Soumya Dey
(IMSc, Chennai)
Secretary, Organizing Committee, TIME 2021

VDS
Vaigyanik Drishtikon Society
An initiative of

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IIS
(deemed to be UNIVERSITY) JAIPUR

8th RAJASTHAN SCIENCE CONGRESS
20-22 October 2021

CERTIFICATE
OF PARTICIPATION

This is to certify that

Mr. Vivek Kumar Sahu

from IIT, Jodhpur (EduMeasy)
has Participated in the 8th Rajasthan Science Congress held at
IIS (deemed to be University), Jaipur, from October 20-22, 2021

Tarun Kumar Jain
Convener, RSC-8

Prof. Y.K. Vijay
Chairman, RSC-8

Dr. Sreemoyee Chatterjee
Organizing Secretary

Prof. T.N. Mathur
Patron, RSC-8

Dr. Ashok Gupta
Chief Patron, RSC-8

CERTIFICATE

OF APPRECIATION

IS PRESENTED TO

Mr. Vivek Kumar Sahu

for winning the Second place for Math Lab Technology
in Tech4Seva Summit - 2022 by the UBA RCI, IIT Jodhpur

Date: 13th July 2022

Dr.Anand K Plappally
UBA RCI , IIT Jodhpur

दैनिक भास्कर · जोधपुर **22-12-2021**

इधर, गणित की गुत्थियां सरलता से सुलझाने हमारे स्टूडेंट्स ने बनाई दुनिया की पहली एजुमैसी लैब

IIT जोधपुर के स्टूडेंट्स ने बनाई मैथ्स लैब, लोहे के बोर्ड पर चुंबक की छड़ियों से सिखा रहे गुणा-भाग, औसत गणना व ज्योमैट्री के सूत्र

8 बोर्ड पर पूरा नंबर सिस्टम्स-ऑपरेशन, अल्जेब्रा व मैनसुरेशन

मनोज कुमार पुरोहित | जोधपुर

मैथ्स, जिसका नाम सुनते ही बचपन में कईयों के चेहरे का रंग उड़ जाता था। आज भी स्टूडेंट्स के लिए सबसे कठिन विषयों में गणित ही सबसे आगे है। अमूमन एक आम आदमी के लिए भी गणित का दैनिक जीवन में उपयोग करेंसी को गिनने या भाव-ताव की गणना करने से अधिक नहीं होता। लेकिन आईआईटी जोधपुर से पासआउट स्टूडेंट्स के एक ग्रुप ने इस विषय को आसान बनाने का एक नया अध्याय शुरू कर दिया है। उन्होंने एक ऐसी लैब बनाई है, जहां इस विषय को फिजिकली महसूस किया जा सकेगा। मेंटर बने दो प्रोफेसर्स ने लाइव लैब तैयार की है। जिसमें कक्षा 6 से 10 तक की मैथ्स को आसान बनाया गया।
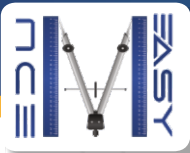
वर्ष 2018 में आईआईटी जोधपुर के इन स्टूडेंट्स के ग्रुप ने दो प्रोफेसर्स के साथ मिलकर मैथ्स को प्रयोगात्मक बनाने के लिए कार्य शुरू किया। लगातार 3 वर्षों की मेहनत के बाद इस लैब को विकसित किया, जिसे एजुमैसी नाम दिया। इस लैब में आठ आयरन बोर्ड हैं। इन पर नंबर सिस्टम्स एंड ऑपरेशन, अल्जेब्रा, ज्योमैट्री, डाटा हैंडलिंग व मैनसुरेशन को आसान तरीके से समझाया जा रहा है। चुंबकी की छड़ियों के माध्यम से बच्चों को जोड़-बाकी, गुणा-भाग, तोलना, औसत ज्ञात करना, आंकलन, वर्गीकरण, आंकड़ों को जांचना, त्रिज्या, व्यास व जीवा आदि के बारे में पढ़ाया जाता है।

लाखों का पैकेज छोड़कर 3 साल में तैयार की लैब

आईआईटी से पासआउट विवेक साहू को भी लाखों रुपए का पैकेज मिला था, लेकिन उसने इस पैकेज को छोड़ अपना स्टार्टअप शुरू करना चाहा। पिछले तीन साल से आईआईटीयन अमित कुमार, अमित सिंह व चिन्मय शर्मा के साथ मिलकर इस लैब को तैयार किया है। साहू व उनकी टीम का लक्ष्य इस लैब को देश की स्कूलों में स्थापित करवाना है।

Demo to **Shri Ashok Ji Gehlot**
(Hon. C. M., Rajasthan)

Demo to **Shri B. D. KALLA Ji**
(Hon. Minister of Education Rajasthan)

Demonstration to Hon. **Dr. Chinmay Pandya Ji**
(The Pro VC of Devsanskriti Vishvavidyalaya)

Math Lab at KV, IIT Jodhpur

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