Introducing

Digital MathLab

A FIRST-OF-ITS-KIND NEXT-GENERATION
MATHEMATICS LEARNING TOOL

Where *Mathematics* is best *Understood* when it is,

SEEN • EXPLORED • EXPERIENCED

FOR CLASSES 5 - 10

Redefining the Equation

A MODERN LEAP TOWARD THE FUTURE OF MATHEMATICS

Mathematics is often seen as abstract when taught only through formulas and procedures. However, true understanding develops when students can see, explore, and interact with concepts.

Aligned with NCERT recommendations, Mathematics Laboratories create a hands-on learning environment where students experiment, observe patterns, and build strong conceptual clarity beyond memorization.

V — Visual interpretation supports clarity in complex concepts

I — Interaction with ideas forms the foundation of effective learning

E — Exploration encourages independent reasoning

W — Willing engagement leads to sustained interest in learning

'DIGITAL MATHLAB' BRINGS THIS VIEW INTO A MODERN DIGITAL CLASSROOM

Mathematics Laboratory Approach VS Modern Education Framework

EMPHASIS	
Exploration	Experiential Learning
Conceptual Discovery	Technology-Enabled Education
Hands-On Learning	Competency-Based Learning

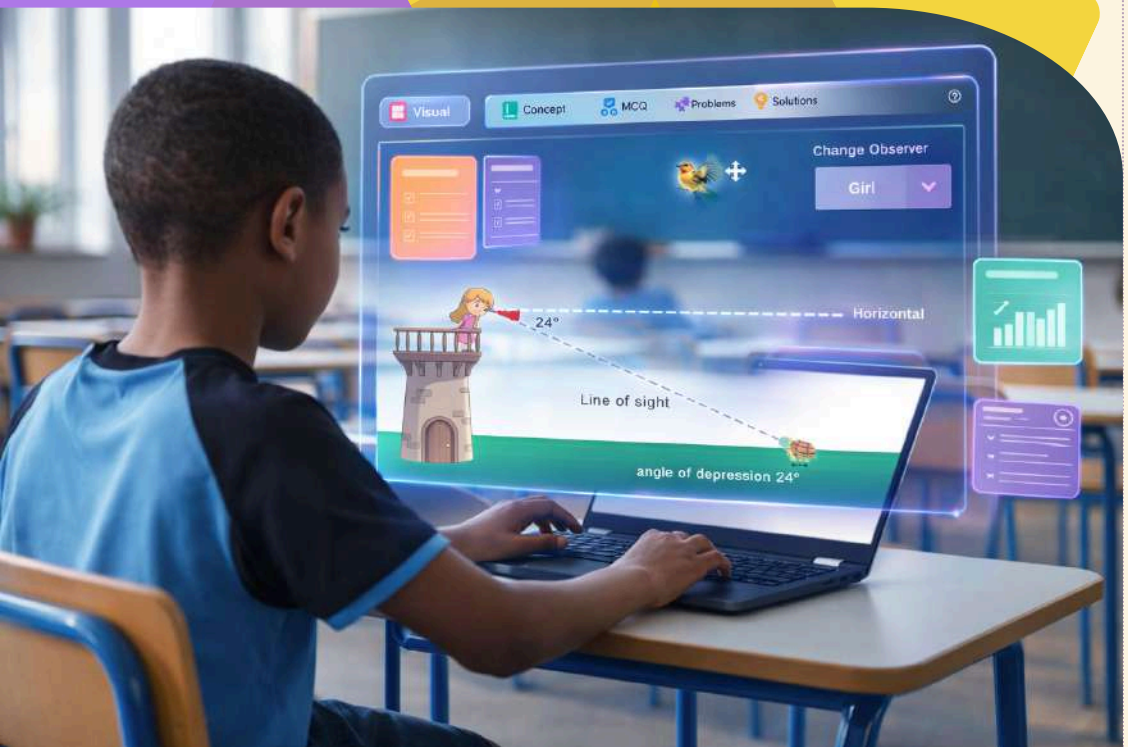
This vision is further strengthened by the National Education Policy 2020, which calls for classrooms that integrate experiential learning, technology-enabled instruction, and competency-based education. Together, these educational perspectives point toward a clear direction for modern mathematics education — one that transforms learning from theoretical instruction into an engaging, interactive, and concept-driven experience where students truly see and experience mathematics.

Introducing

DIGITAL MATHLAB

Digital MathLab is a comprehensive, NCERT-aligned, chapter-wise interactive mathematics visualization platform designed for Classes 5 to 10. It transforms traditional mathematics learning into a visual, interactive, and exploratory experience. Each chapter in Digital MathLab is organized into five integrated sections—Visual, Concept, MCQ, Problems, and Solutions

Students can see mathematics in action, explore concepts, and develop deeper conceptual understanding. Teachers can demonstrate abstract ideas visually, making mathematics more engaging and accessible for every learner.



KEY *highlights*

- 01 Chapter-wise interactive visualizations
- 02 Digital mathematics lab experiments
- 03 Teacher-controlled classroom access
- 04 Multi-level practice resources
- 05 Concept-based learning approach

VISUAL — 20%

Explore ideas through interactive visualizations

CONCEPT — 20%

Understand the underlying concepts

5-Step Integrated Learning Framework — 100%

MCQ — 20%

Test their knowledge through multiple-choice questions

PROBLEMS — 20%

Practice structured multi-level problems

SOLUTIONS — 20%

Learn correct approaches through detailed solutions

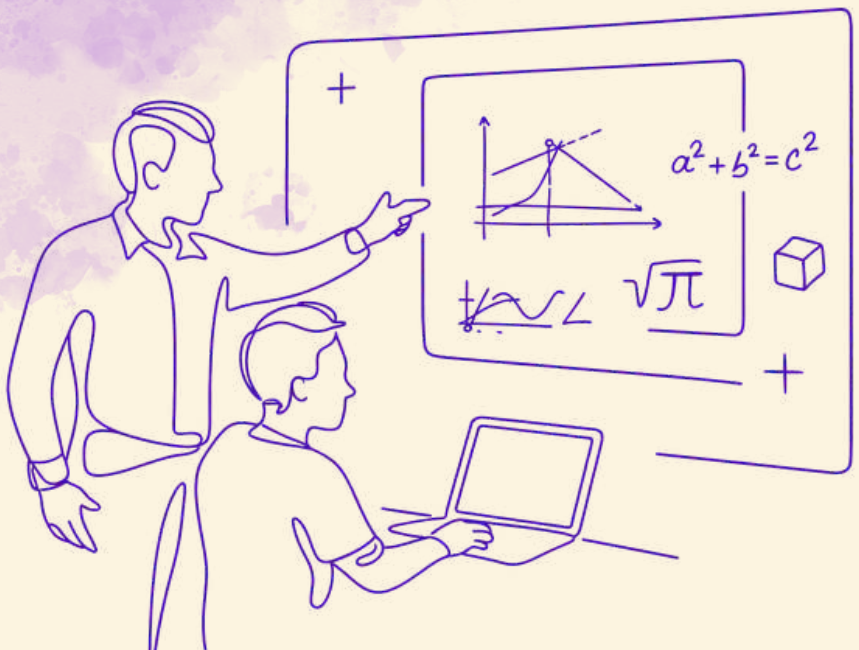
A DUAL-USE PLATFORM FOR *Teachers & Students*

Digital MathLab is built to create an engaging environment where mathematics can be seen, explored, and truly understood. Instead of learning concepts only through formulas and procedures, students experience mathematics through visual exploration, interactive experiments, and guided practice.

The platform transforms the traditional classroom into a dynamic learning space where abstract ideas become clear and intuitive. Through interactive visualizations and digital lab activities, teachers can demonstrate mathematical concepts more effectively, making lessons more engaging and easier to grasp.

At the same time, Digital MathLab empowers students to take an active role in their learning. By providing a digital laboratory environment, students can experiment with concepts, explore patterns, and develop deeper conceptual understanding at their own pace.

By combining visualization, experimentation, and structured learning pathways, Digital MathLab supports both teacher-guided instruction and independent student discovery, creating a balanced ecosystem that nurtures curiosity, clarity, and confidence in mathematics.



Two Approaches, *One* Learning Ecosystem

for Teachers		for Students
Visually demonstrate mathematical concepts using interactive digital tools.	**Concept Delivery**	Understand concepts through visual exploration & observation.
Guide students through structured digital math experiments and demonstrations.	**Learning Method**	Discover concepts independently through exploration and experimentation.
Engage the classroom using interactive visuals & dynamic mathematical models.	**Classroom Interaction**	Actively participate in learning through hands-on interaction with digital models.
Assign and monitor digital laboratory experiments through the teacher dashboard.	**Activity Management**	Perform assigned activities and explore additional experiments independently.
Design & facilitate concept-based learning pathways for students.	**Learning Progression**	Practice concepts through exercises with progressively increasing difficulty levels.
Act as a facilitator and guide for conceptual understanding.	**Role in Learning**	Become an active learner developing independent conceptual clarity.

Key *Functionalities*

01

Interactive Visualization of Mathematical Concepts

Digital MathLab presents mathematical concepts through interactive visualizations. These visuals help students clearly understand abstract ideas and make learning more engaging.

02

Usage Analytics and Insights

The platform provides usage analytics for both teachers and students. These insights help teachers monitor engagement and track learning progress.

03

Engaging and Time-Efficient Teaching

Teachers can use interactive visuals to demonstrate mathematical concepts in the classroom. This makes lessons more engaging while helping teachers explain ideas quickly and effectively.

04

Comprehensive Learning Resources

It provides a wide range of learning resources for each concept, including - Interactive Visualizations, Concept Maps MCQs, Practice Problems with Solutions, 4 levels of questions, including case-study and assertion–reasoning types.

05

Seamless Student Access Management

Teachers can provide students with access to learning resources directly through the teacher dashboard. This removes the need to share individual student credentials.

06

Digital Mathematics Lab Experiments

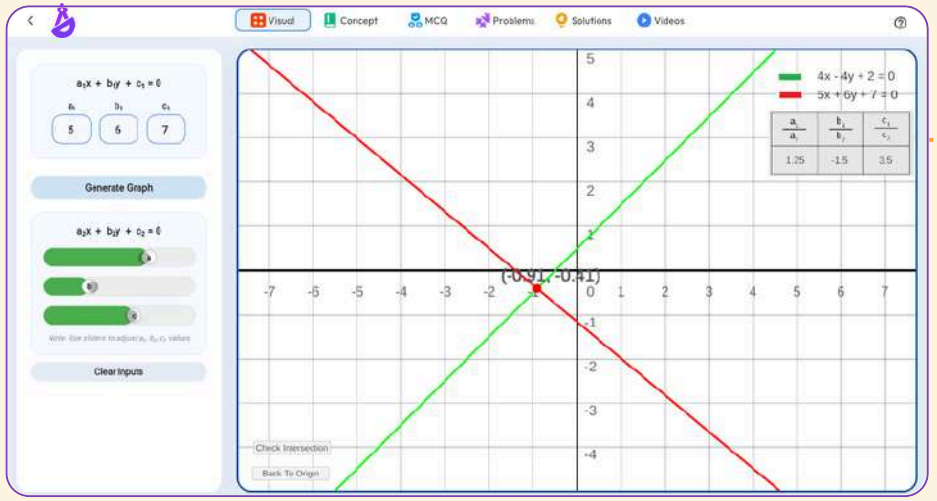
Teachers can assign digital mathematics lab experiments for different concepts. Each experiment includes clear instructions and lab manuals that guide students to explore and understand the concept step by step.

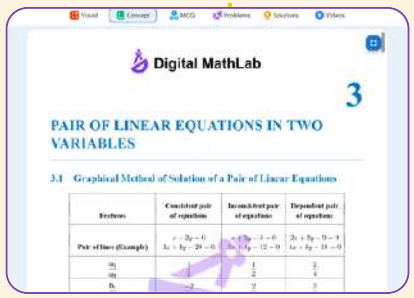
07

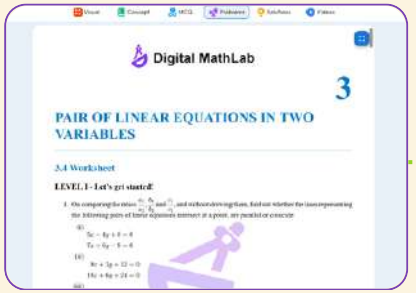
White-Label Solution

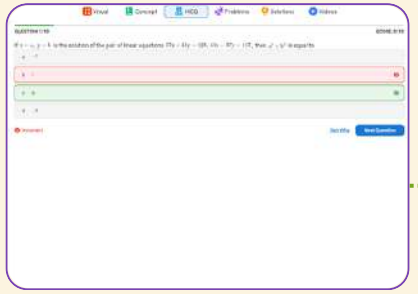
Digital MathLab can be deployed as a white-label platform. Institutions can present and use the platform under their own brand identity.

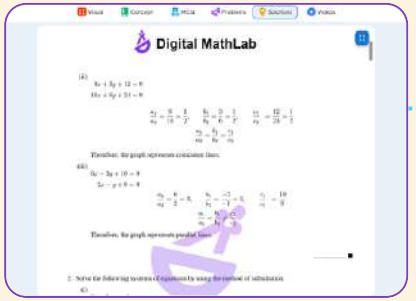
Inside DIGITAL MATHLAB











Visual

Visualizing mathematical ideas helps students understand abstract concepts more clearly and intuitively.

Concept

Strong conceptual explanations build a solid foundation and help students understand the logic behind mathematical ideas.

Platform Features

A CLEAR PATH TO BUILD A STRONG FOUNDATION IN MATHEMATICS.

MCQ

Regular concept checks through MCQs help students assess their understanding and reinforce learning.

Problems

Structured practice problems help students apply concepts and develop strong problem-solving skills.

Solutions

Detailed solutions guide students in understanding correct methods and learning from mistakes.

Videos

Offer clear, step-by-step visual explanations that help students understand concepts quickly and easily.

Why Your School Should Consider Digital MathLab...?

Digital MathLab represents the next phase of mathematics education, offering a ready-to-use, student-friendly, and pedagogically robust digital solution that integrates seamlessly into regular classroom instruction. By adopting this platform, schools can effectively transform mathematics teaching into an engaging, exploratory, and meaningful learning experience —shifting from rote procedures to deep conceptual understanding and long-term learning outcomes.

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