



ScienceLab™

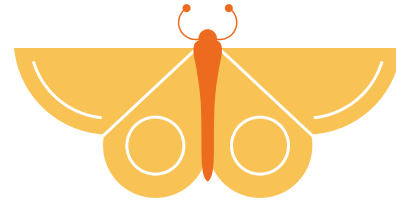
Discover Experience Explore



Next Education™
Transforming Education

Creating a Brighter Tomorrow for Today's Students

Creating a **Brighter Tomorrow** for today's students



“If we teach today's students
as we taught yesterday's,
we rob them of tomorrow”

— John Dewey (1859–1952),
American philosopher, psychologist and educational reformer

Next Education is working to bring about a systemic change to Indian education by marrying education with technology. We proudly say that our technology-based products and solutions have been adding value to education to the benefit of all our stakeholders.

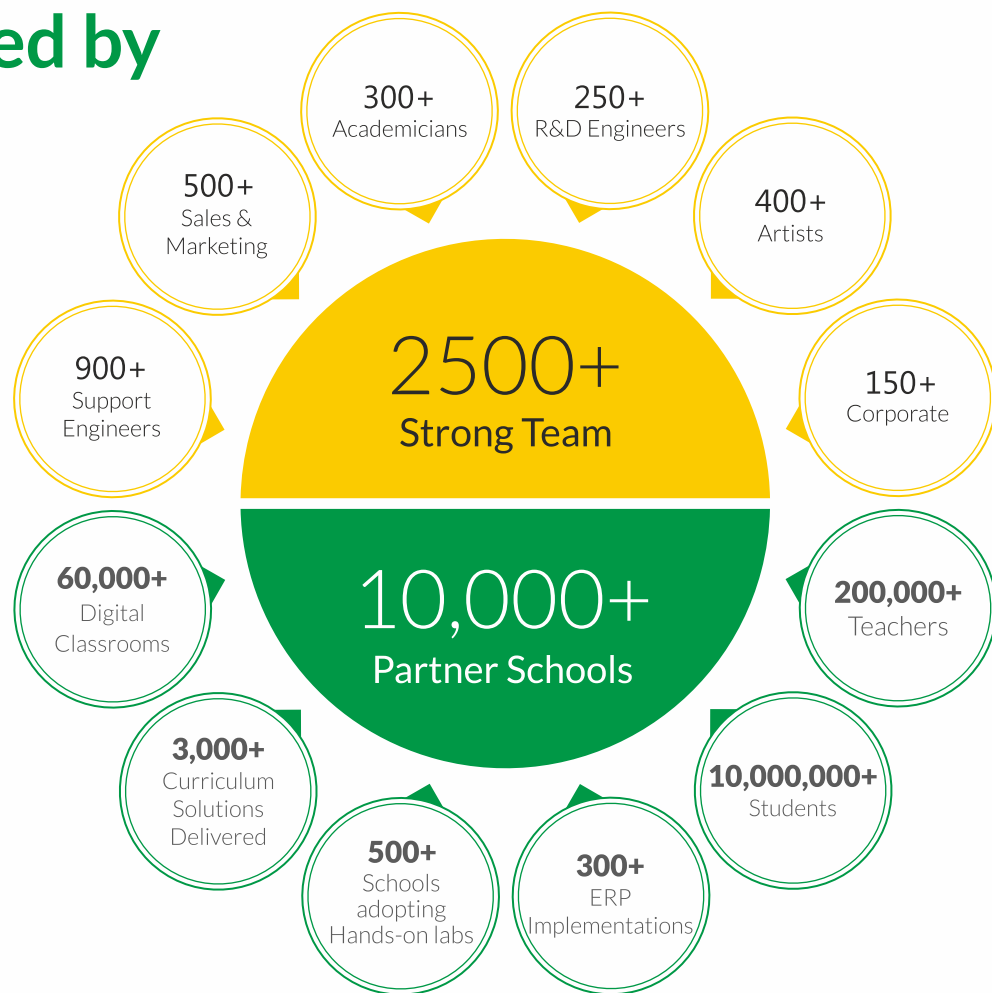
1. Technology improves content as well as content delivery

Gone are the days where learning meant a teacher standing in front of the class with textbooks and chalk drawings on the board which would appeal to and be effective for only a handful of analytical students. With the advent of technology, we can now create top-of-the-line interactive audiovisuals, hands-on activities and simulations to appeal to auditory, visual as well as kinaesthetic learners. Products and solutions by Next Education ensure the diverse needs, abilities and learning styles of all learners are catered to.

2. Technology makes quality education accessible to all

Next Education is boosting the democratization of technology which ensures universal access to quality education through its technology-powered content in products like TeachNext, LearnNext, digital version of NextBooks and its free mobile apps. Learners can now access standard education on the go, share homework with their teacher online, see their textbooks come alive in a digital classroom and have online one-on-one tutoring sessions with experts. Lack of infrastructure, good mentors or time; distance or high fees no longer is detrimental to receiving quality education.

Supported by



Validated by industry

2016		<ul style="list-style-type: none"> ➤ Innovation in Pre-school Pedagogy World Education Summit 	20+ Awards and counting ...
2015		<ul style="list-style-type: none"> ➤ Innovation in Teaching Pedagogy Award World Education Summit ➤ Innovation Excellence Award in Education The Associated Chambers of Commerce and Industry of India (ASSOCHAM) 	
2014		<ul style="list-style-type: none"> ➤ Best School Books Solution Global Learn Tech Conference and Awards ➤ Best Emerging School ERP Digital Edge ICT Conclave on Education 	
2013		<ul style="list-style-type: none"> ➤ Best Multi-Media Content for K-12 Education World Education Summit ➤ Excellent Human Resource Management in Education Industry National HRD Network ➤ Best K-12 Content for Maharashtra State Board in English and Marathi Wisitex World Education 	

Every day, our innovative products touch the lives of 10% of India's private-school-going children



Next Curriculum™

A comprehensive and integrated
K-8 curriculum solution

Check out our apps on



Google Play



NextMentor



NextBooks



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NextERP



LearnNext



TeachNext™

An optimal K-12 digital
classroom solution



Next.Lab™

An experiential learning approach to
create interest around STEM



Next.LearningPlatform™

A platform with a collection of tools that
augments education for all K-12 stakeholders





Discover Experience Explore

An innovative solution for learning science that lives up to the true meaning of a Lab, where experimentation, innovation and experience form the key to learning.

What is Experiential Learning?

Experiential Learning, to put simply, is learning through reflection on doing. Students learn from experience, and in the process, they construct knowledge and develop skills.

Why is Experiential Learning required?

When students are 'experiencing' and 'doing' activities, they have a better attention span, and thus, they are able to learn faster and better.

Experiential learning encompasses:

- Constructivism
- Project-based learning
- Learning by doing
- Active learning
- Hands-on learning
- Activity-based learning

Experiential Learning Solution



ScienceExplorer Box:

Following the NCF recommendations, hands-on activities are included in the curriculum.



Books:

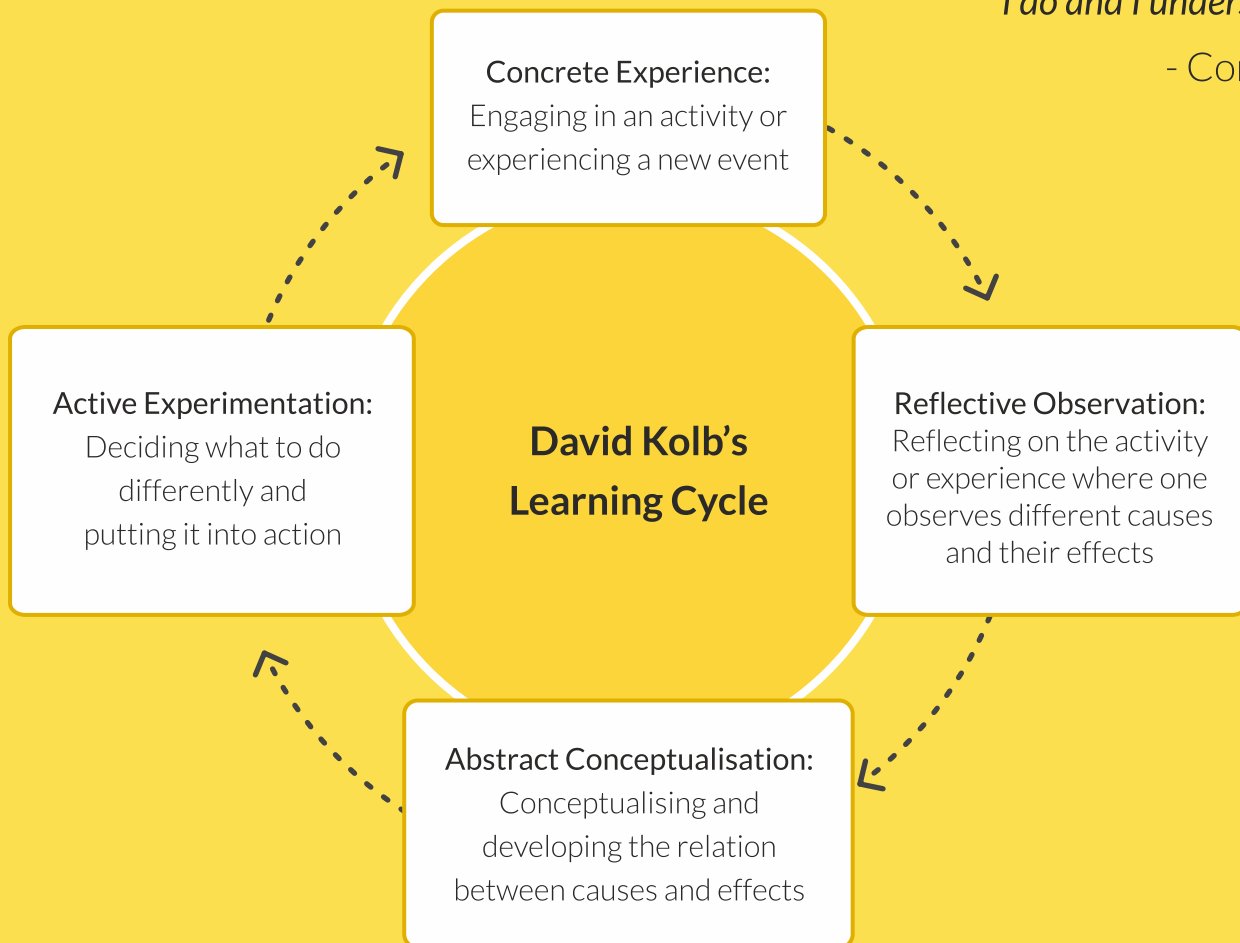
The books are designed following CBSE curriculum. The content is integrated with TeachNext modules.



ScienceLab Software:

Integrated with our digital classroom solution, TeachNext, simulations, interactive experiments and activities help students relate to abstract concepts. These are also available on the app.

“ I hear and I forget
I see and I remember
I do and I understand
- Confucius



Science Explorer Box

- Hands-on Activities
- Student Manual & Workbook
- Visual instructions
- Assessments



Integrated Learning Curriculum

- Next Books
- Integrated Software
- Science Explorer Box



Science Explorer Box

The age and grade appropriate box is designed to enable each learner experience the testing, exploration and application of various scientific concepts.

The guidelines of the National Curriculum Framework (NCF) recommend the use of hands-on activities to impart science lessons as they help students gain an understanding of abstract concepts.



Components of Science Box

Hands-on Activity Kit

- The pedagogically-sound activity kit has 10 unique activities
- It help students explore scientific concepts
- It helps them apply the concepts learnt, in their daily lives



Components

- 100 science experiments
- 10 activities per grade
- Available for Grades 1-10
- Each experiment interlinks 4-5 concepts



Science Manuals and Workbooks

- Students can record their observations and inferences on these.
- It also provides a complete experience of the concept.
- Schools can make workbook notes a part of their formative assessment framework.
- There are also various kinds of reports like Individual Student Reports, Teachers Reports and Management Reports, etc

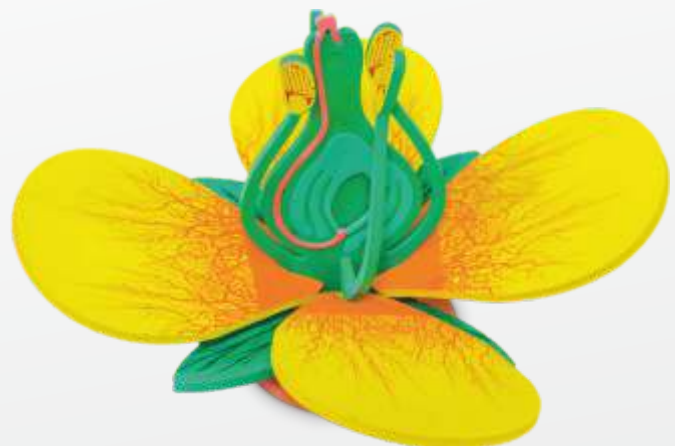
HD Instructional Videos

- The videos help students to complete the activities
- It also explains the science concepts that they can relate to their day-to-day life



Teachers Demonstration Kit

Out of 100 activities available in the Science Explorer box, some activities have been identified to be included in the teacher training program. Bigger in size, these models can help teachers demonstrate activities to a class full of students much easily .



Science lab Software

Hands-on Learning has its limitations. Every concept cannot be applied effectively. For instance, a student cannot check the effect of gravitational forces on the mass of an object. Our virtual labs come to rescue.

Components of ScienceLab

Simulations:

Students can validate concepts by exploring the effect of change in various parameters on a concept/entity. It helps them test concepts for almost infinite possibilities.

Interactive models amplify understanding of real-life phenomena. There are **50+** simulations for grades 6-10.

Simulation video step-wise: Determination of Focal Length of a concave mirror to observe it



Step 1: Click the concave mirror to observe it



Step 2: Click the concave mirror to place it on the table

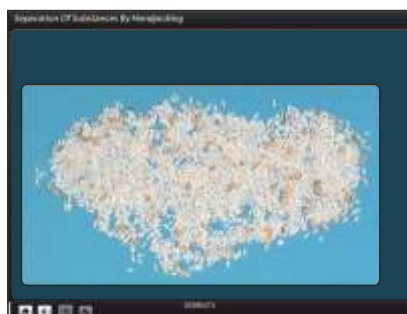


Step3: Click the window to open

Interactive Experiments:

The step-wise experiments performed in a virtual lab setup include the NCERT prescribed experiments along with an additional set designed by our subject matter experts. There are **400+** experiments for grades 4-10.

Interactive Experiments video step-wise: Separation of Substances By Handpicking



50+

Simulations
for grades 6-10

400+

Experiments
for grades 4-10

150+

Virtual activities
for grades 4-10

SIMULATIONS



Step 4: Click the screen to place it on the table



Step 5: Click the mirror to obtain a sharp image of the distance object on the screen



Step 6: Click the measuring scale to place it on the table

Separation Of Substances By Handpicking

Observations

OBSERVATION TABLE	
Description	Observation
Initial appearance of the sample	Rice grains mixed with small stones, husk, broken pieces of rice grains, and other pulses
Final appearance of the sample	Only rice grains

Separation Of Substances By Handpicking

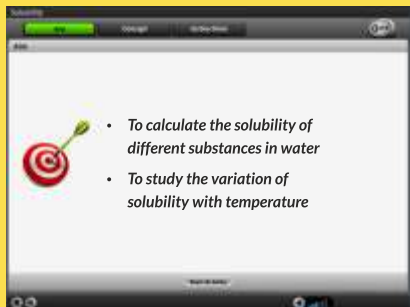
Learning Outcome

- The mixture contains different components like small stones, husk, broken pieces of rice grains, and other pulses which can be visually identified as they differ in size.
- All the components of the mixture are separated by hand, because of their different sizes. The method used to separate the mixture is called handpicking.

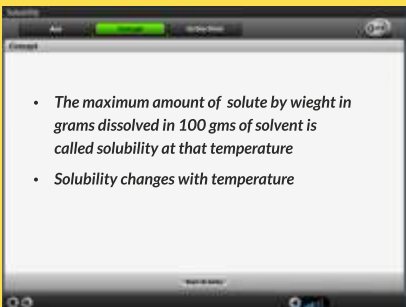
Interactive Activities:

These are the computer based activities through which students can reinforce the concepts learnt in class and relate them to real life. There are **150+** virtual activities for grades 4-10.

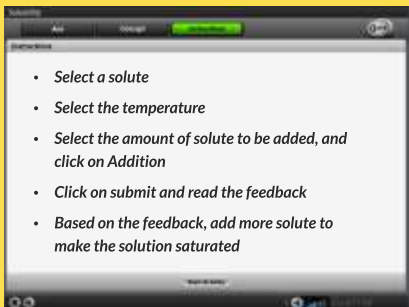
Interactive Activity: Solubility



Aim



Concept



Instructions



Science Explorer Manual

Student manual helps in effective implementation of lessons and activities. Plans are available for grades 1-10. Usage reports track the tasks of teachers and students.

Record observations

Students can follow instructions and note down their observations and deductions in the space given.

7 Look at the type of action and name the joint being used.

Type of action	Image of the action	Name of the joint being used
Waving the hand		
Weight lifter lifting weight		

INTERACTIVE ACTIVITIES



Select temperature and amount of solute and click 'Add' button



Click on submit button to check the solubility



Read the question and select the correct option

Safety is Essential

Precautions need to be taken to carry out some of the activities.

There is a safety note for each activity.



Safety First!

- Do not light the tea-light candle by yourself. Request your teacher to light it.
- Be careful while heating any substance. Hold the test tube or cup away from your body.
- Make sure that the burning tea-light candle does not fall down. If it falls down, inform your teacher immediately.
- Do not hold the hot tea-light candle cup with your hands. Use a cloth piece for holding or hold it after it becomes cold.
- Request your teacher to put out a tea-light candle when it is not in use.
- Do not touch the heated aluminium cup or test tube.
- Hold the test tube vertically or slightly tilted while heating. Never tilt the test tube too much.
- Do not taste or swallow any chemical given in the kit.
- Do not touch any chemical with your hands and wash your hands after completing the activity.
- Be extremely careful while handling copper sulphate as it is toxic, irritating to eyes and skin and it can be very harmful if swallowed.

Explore and Observe

The procedures are detailed out step-by-step. Exploratory questions, interesting facts and real-life examples accompany each activity.



1

Take the square board sheet and place it on the table.



2

Take the toy. We will refer to this toy as the 'object'.



3

Place the toy inside one of the circles on the square board so that the toy faces the square board.



4

Mirrors can be placed inside any one of square grids on the square board.

Before you begin, read these rules carefully:

Rule 1: Use the exact number of mirrors mentioned.

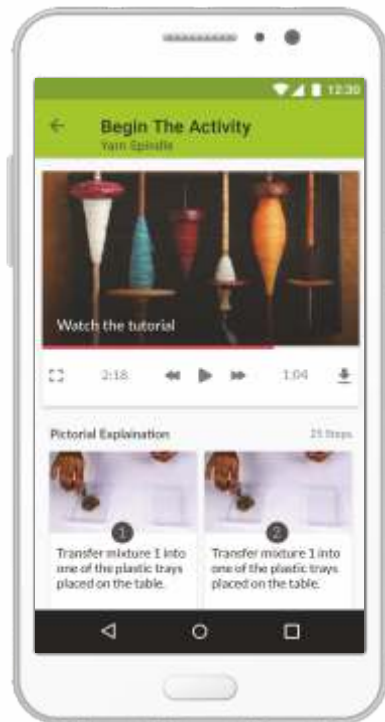
Rule 2: Place the object exactly at the location mentioned.

Rule 3: View perpendicularly to the board and only from the viewing point mentioned.

Rule 4: Place the mirror on the board such that its case fits perfectly inside a square on the board.

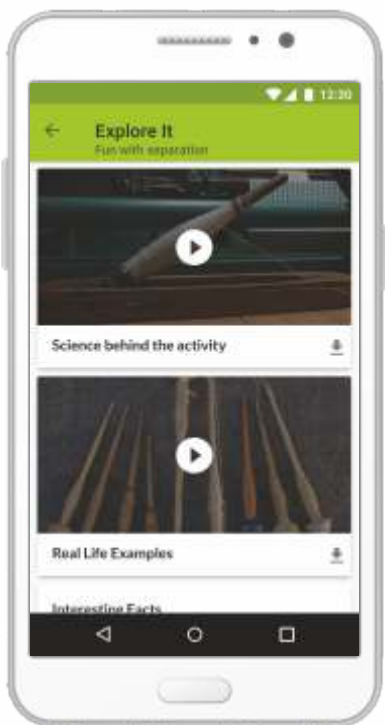
ScienceLab App

Instructional videos and activities are also available on the app. All the activities are categorised as per grade and chapter.



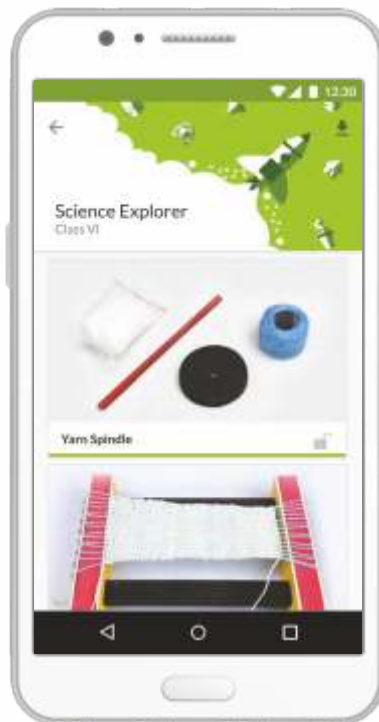
► Download Videos

Students can download the instructional videos once and for all. This would help them stream videos offline, keeping them independent of internet.



► Real-life Example

Every activity has a real-life relevance which is mentioned. For instance, the yarn spindle activity has a relevance to the textile industry. Students can also check out interesting facts related to the activity.



► Know the Progress

Prior knowledge is required to do some of the activities. The Progress bar shows the progress a student has made and also indicates the gap that is yet to be met. And, even if they leave a task midway, coming back to the task later, won't require starting from the scratch.

Probe students to exhibit their scientific creativity. Request for Science Day in schools.

ScienceLab Meets All Learning Outcomes



From Facts to Experiments:

Evaluating students based on their ability to memorise facts hinders their intellectual or cognitive growth.

Application of concepts in ScienceLab puts the spotlight back on observation and experimentation and helps students gain a thorough understanding of concepts and retain concepts for a longer time.

One stop science solution:

Conforming to the guidelines of the NCF, ScienceLab has all the science-related solutions in one place, including resource kits, workbooks, instructional videos, lab plans and more.

Hands-on activities, simulations, more:

By actively participating in the learning process, the present generation is prepared to become problem-solvers, collaborators and fearless inventors.



Testimonials



Ashwin,

The science kit provided is a box with magic of science which makes me more interested in science.



Bodhan,

It's very useful & it's fun to perform Activity. Happy to perform practically.



Neeraj. V. Namboothiri,

We are glad to say that your science kits are very interesting and helpful to my child Neeraj.V.Namboothiri. Thank you to the entire team who is behind this.



Renee Gupta,

Science kit is very good.



Arnav Bishnoi, Shanti Niketan Public School, Panvel, Maharastra

Science kit gives me practical knowledge and are innovative.



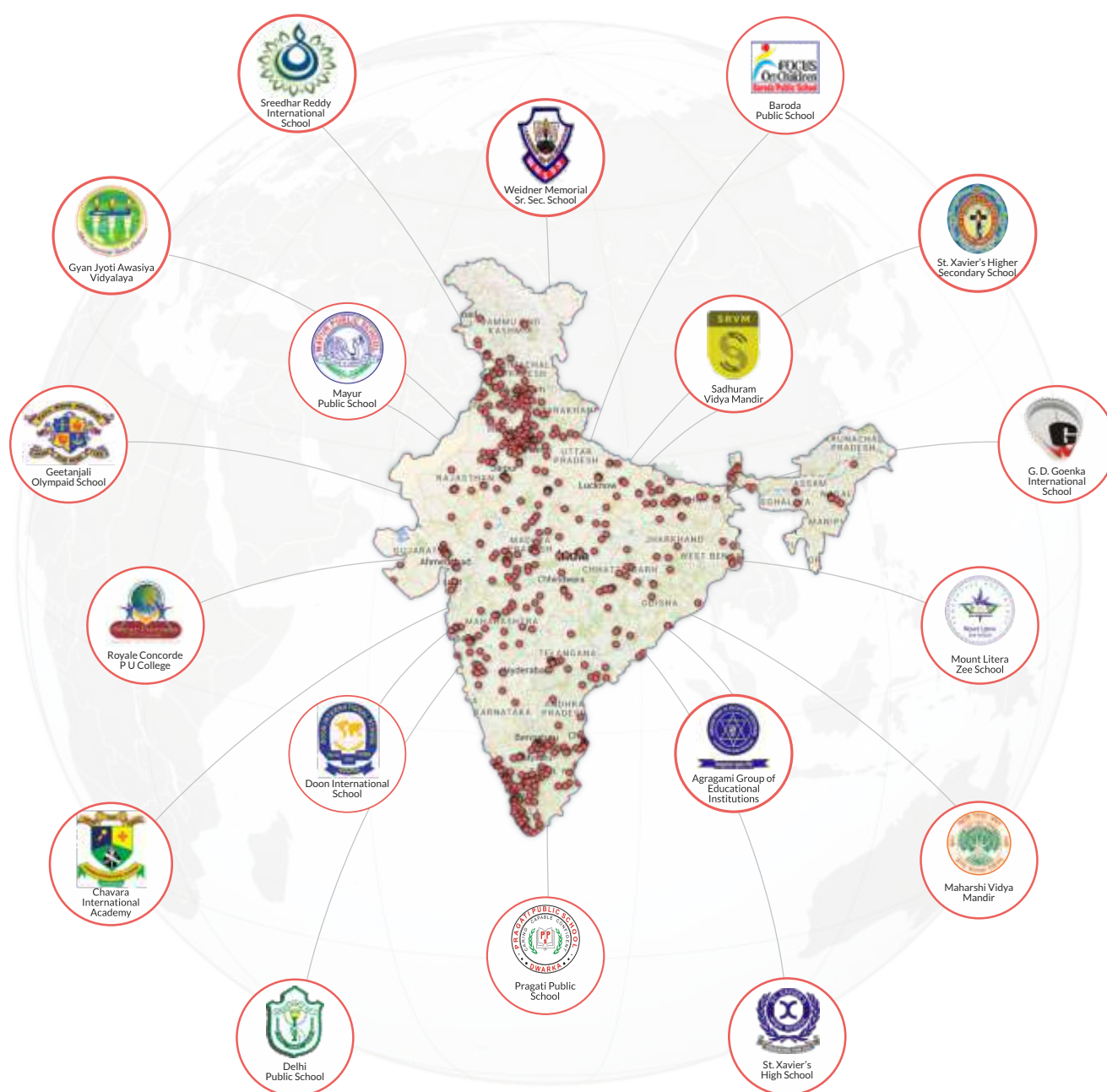
Academic Partnership

Creating a strong network to enhance educational experience

From conducting country-wide conferences to school-level trainings, we are always string to bring the best experience with regard to our products.

Last year we organised

40+ Workshops 200+ Trainings 20+ Residential workshops



Around 800 schools touched in workshops and more than 2000 got trained with ScienceLab events



ScienceLab™

arms you with everything
you need to embark on the
thrilling ride of testing,
exploring and applying
science concepts.

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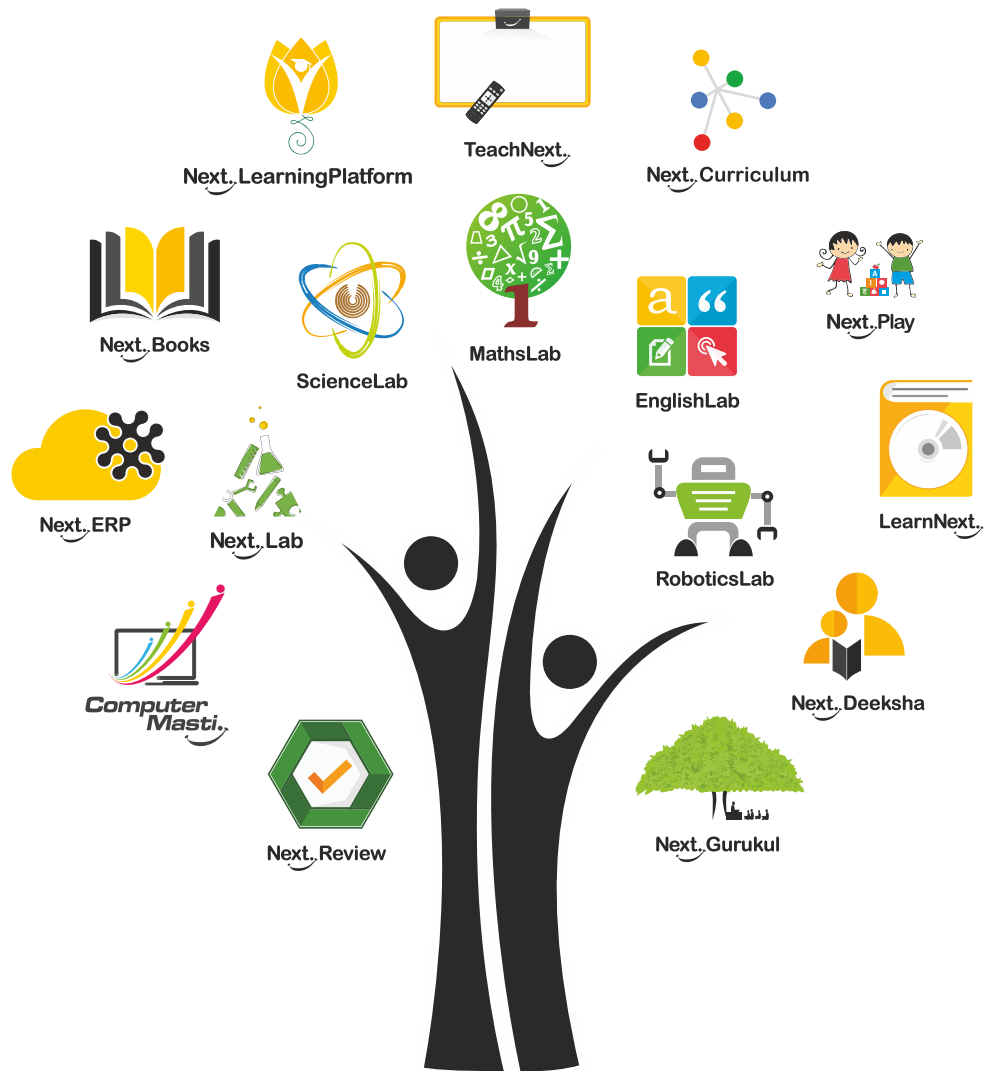
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A vibrant community
for K-12 stakeholders



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