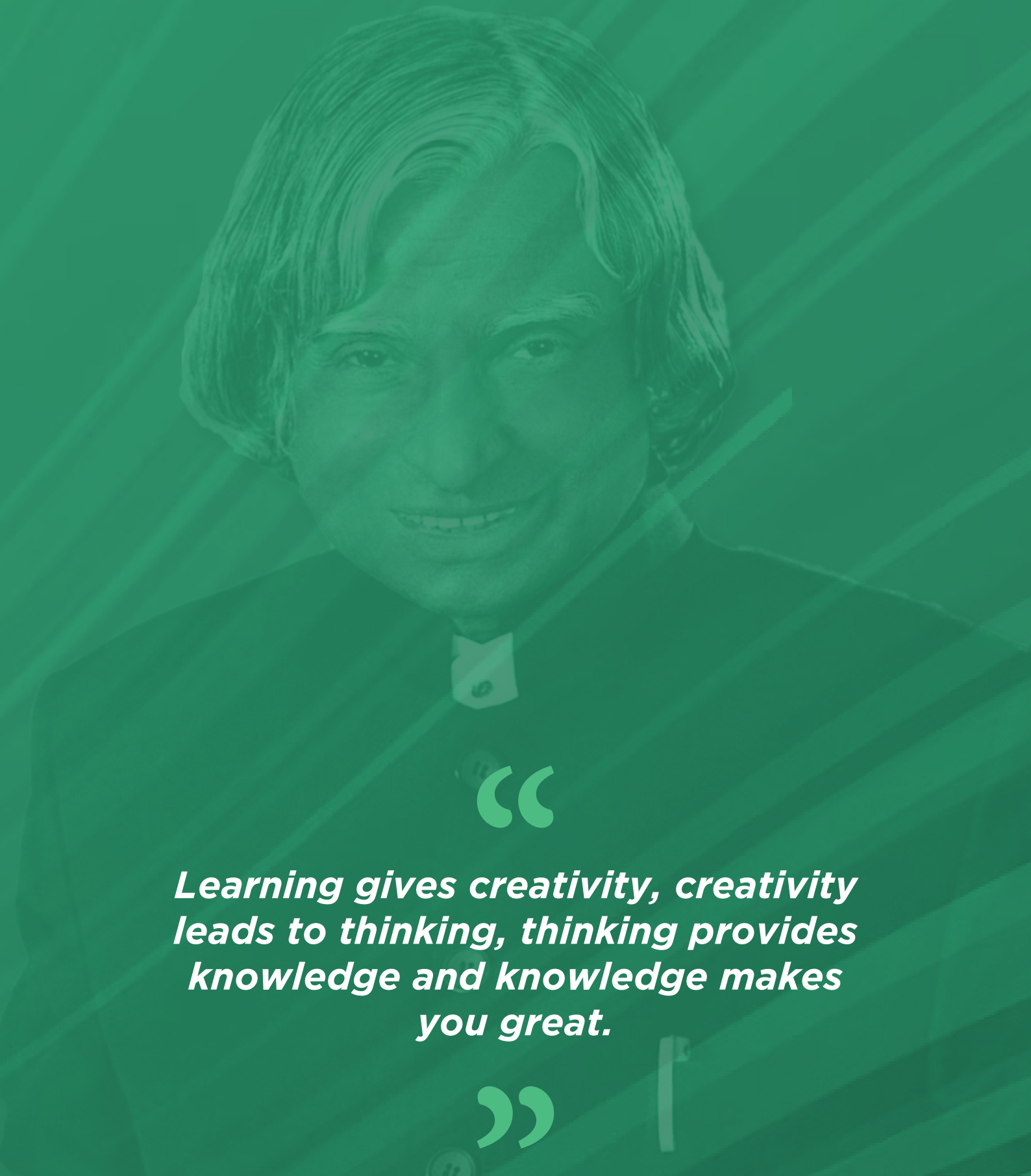


ATL EXEMPLARY TEACHERS OF CHANGE



Learning gives creativity, creativity leads to thinking, thinking provides knowledge and knowledge makes you great.

-- A.P.J. Abdul Kalam





सत्यमेव जयते

डॉ. चिंतन वैष्णव

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मिशन निदेशक

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भारत सरकार

नीति आयोग

अटल इनोवेशन मिशन

संसद मार्ग, नई दिल्ली-110001

Government of India

NITI Aayog

Atal Innovation Mission

Sansad Marg, New Delhi-110001

Message from the Mission Director

Science is fascinating because it helps humanity to see things from different perspectives, solves critical problems, provides bases for open-minded global conversation and collaboration. Dr Vikram Sarabhai once said, "The development of a Nation is intimately linked with the understanding and application of science and technology by its people". Learning science well is therefore of critical importance and doing so is not possible without hands-on experimentation.

Atal Innovation Mission (AIM) through its Atal Tinkering Labs (ATL) in schools is steered in the direction of creating a culture of learning by doing. Teachers who can create an environment that help students think deeply, ask questions, act, and be scientists and engineers in their own right, bring forth the natural curiosity science brings to the classroom. The ATL In-charges in these ATLs encourage students to test, try new things and help them see how experiments can fail or succeed—leading to learning from failure.

This book by the Atal Innovation Mission (AIM) acknowledges the hard work being put in by our Exemplary Teachers of Change (EToC) at the ATLs in moulding the young minds to tinker and think beyond their capabilities. It is the collective effort of all the EToCs that is instrumental in fostering a culture of innovation among young minds in the ATLs and across the country. Their commitment to nurturing a problem-solving mindset among young innovators is not only shaping the future job creators of our nation but also bringing about a welcome change in which science has been traditionally taught.

I congratulate all the teachers on featuring in this book and urge them to continue their good work as today's small steps will lead to producing tomorrow's scientists, engineers, innovators, entrepreneurs and most importantly job-creators who will transform the Nation into a developed entity and contribute to the dream of Viksit Bharath@2047.


(Dr. Chintan Vaishnav)



एक कदम स्वच्छता की ओर



PREFACE

ur revered leader, the late Shri Atal Bihari Vajpayee Ji, often expressed his belief that the future of our nation rests in the hands of its youth. The Atal Innovation Mission (AIM), named in honour of his enduring legacy, is a dedicated effort to transform his visionary dreams into tangible reality.

AIM, a flagship initiative by NITI Aayog, is dedicated to promoting innovation and entrepreneurship across the nation. At the school level, AIM is establishing cutting-edge Atal Tinkering Labs (ATL) in schools across 722 districts in the country. It systematically nurtures young students in crucial present day skills, including creativity, innovation, entrepreneurship, critical thinking, social and cross-cultural collaboration, ethical leadership, and more.

Since the introduction of ATL, I've been privileged to observe an impressive showcase of inventive thinking and adept problem-solving skills from the young intellects of our nation. This transformative thought process finds steadfast encouragement through the committed ATL in-charges, acting as mentors guiding students along the avenues of creativity, exploration, and innovation.

The 'ATL Exemplary Teachers of Change' book is our way of recognizing the outstanding work done by ATL in-charges for their students, community, and ATL itself over time. The book aims to celebrate their hard work and dedication, inspiring others to persistently cultivate an innovative mindset among India's youth. I applaud and congratulate the ATL Exemplary Teachers of Change, urging them to continue inspiring teachers and guiding students on this transformative journey.

It has been a wonderful team effort that has resulted in arriving at the EToCs and compiling this book. My special words of praise and thankfulness to Mr. Dipyaman Sinha, Ms Tanvi Misra and our intern Ms. Yashika Khatri who have provided invaluable support in the creation and editing of this book. I would also like to thank Mr. Prateek Deshmukh, Mr. Shubham Gupta and Mr. Suman Pandit for supporting throughout the process.

We, at Atal Innovation Mission, NITI Aayog, Govt. of India, pledge to work hard every single day and bring about a system which nurtures the creative and innovative mind and thereby create an ecosystem that is conducive to innovation for all of us.

Ms Deepali Upadhyay

Program Director, Atal Tinkering Labs
Atal Innovation Mission, NITI Aayog



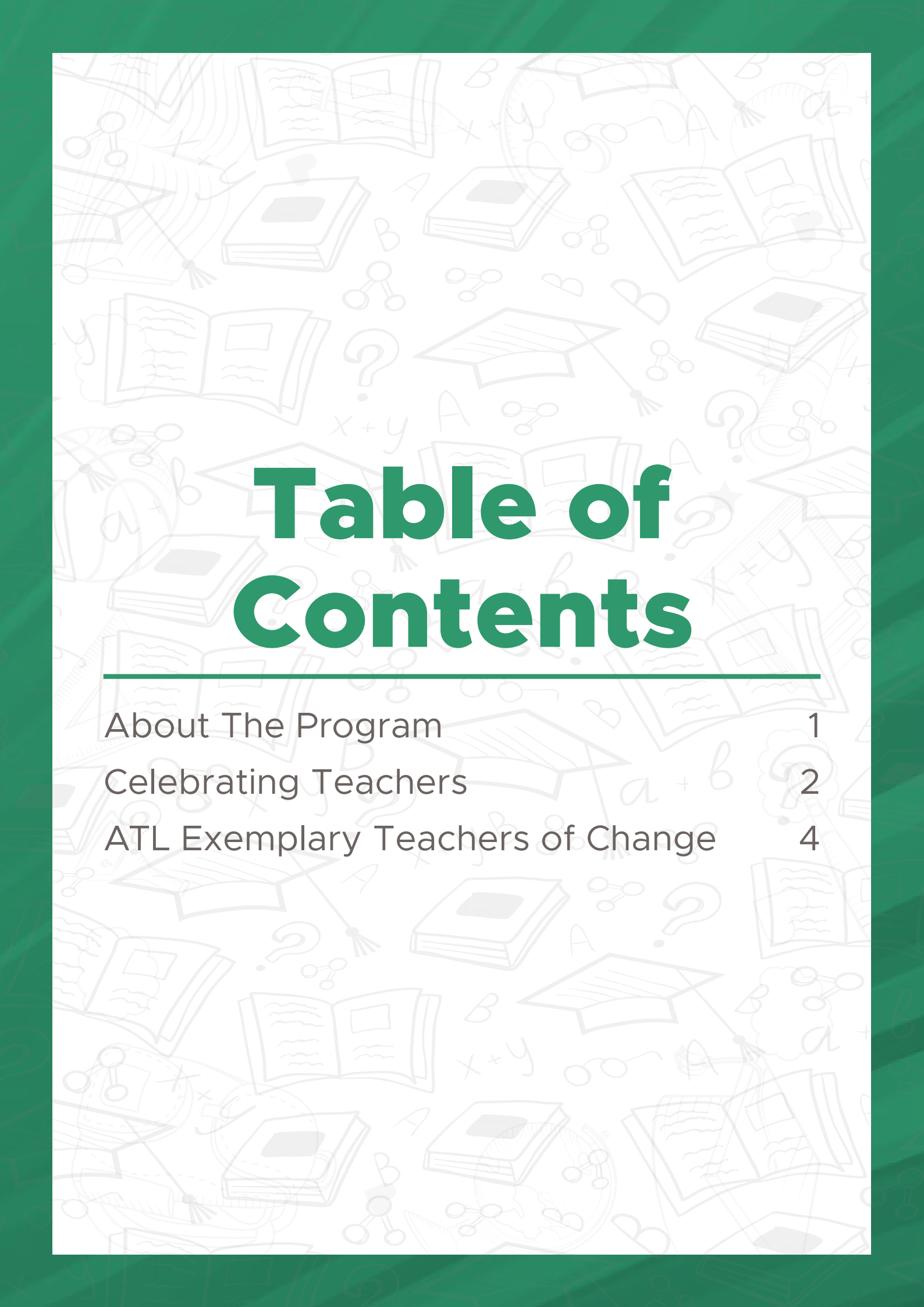


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ABOUT THE PROGRAM

Atal Innovation Mission (AIM)

AIM, NITI Aayog is an umbrella innovation organisation that has played an instrumental role in alignment of innovation policies between central, state and sectoral ministries, by incentivizing the promotion of an ecosystem of innovation and entrepreneurship at various levels - higher secondary schools, higher educational and research institutions, and SME/MSME industry, corporate, and government ministerial level, by public-private partnership.

Atal Tinkering Labs (ATL)

We are at the cusp of a Fourth Industrial Revolution and the need for inculcating an innovative mindset within our youth is of paramount importance. Combining the traditional teaching methodologies with today's experiential learning will be the key towards creating a unique blended education system in India. Keeping in mind the demands of the growing economy and global growth in innovation development, the Government of India, embarked on a noble mission to create an ecosystem that nurtures futuristic skills like complex problem solving, critical thinking, adaptive learning, computational skills in children, with a vision to create one million neoteric innovators, with the ATL initiative.

ATL is encouraging students and teachers to experiment, explore and follow a self-learning path, thereby empowering them to think differently about problems and develop innovative solutions, by leveraging latest technology tools including 3D printing, Internet of Things, robotics, miniaturised electronics, space technology, drone technology, technology inspired textiles and so on. ATL is also providing other sections of the community including parents, mentors and other individuals interested in innovation to give life to their ideas. Through frequent community sessions, ATL is shaping an ecosystem wherein every individual can contribute towards finding solutions to day-to-day problems of the society and the country, henceforth creating a strong essence of national service.

Under the ATL scheme, grant-in-aid of up to Rs. 20 lakh is provided to schools selected for setting up ATL. The grant must be spent exclusively for the specified purpose within the stipulated time of a maximum period of 5 years, with Rs.10 lakh for capital expense and remaining Rs.10 lakh for operational and maintenance expenses.

As of July 2021, 10,000 ATLs have been established, covering 90% of all the districts and 108 Aspirational Districts of India. These labs, established in both govt. and private schools and majority in co-educational and girls' schools, are serving as community hubs of innovation, while transforming the way India learns, thinks, ideates and innovates

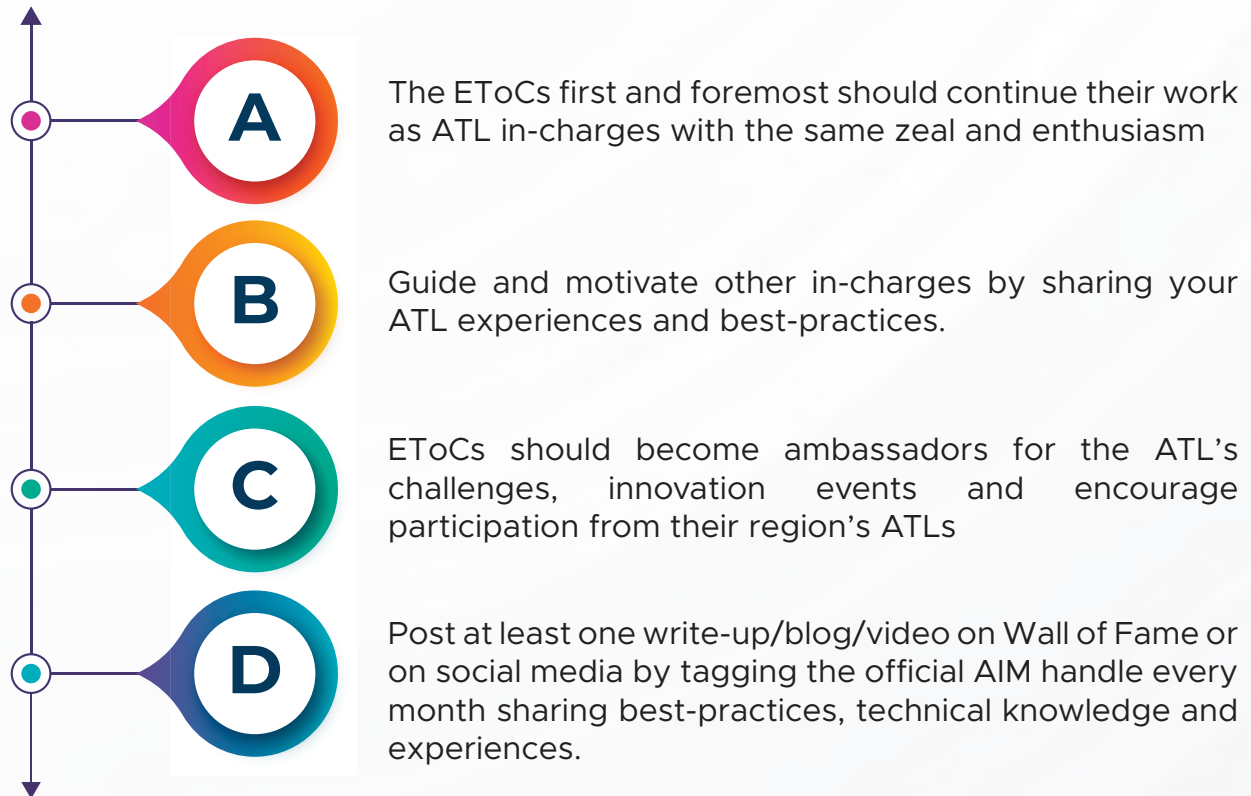
CELEBRATING TEACHERS

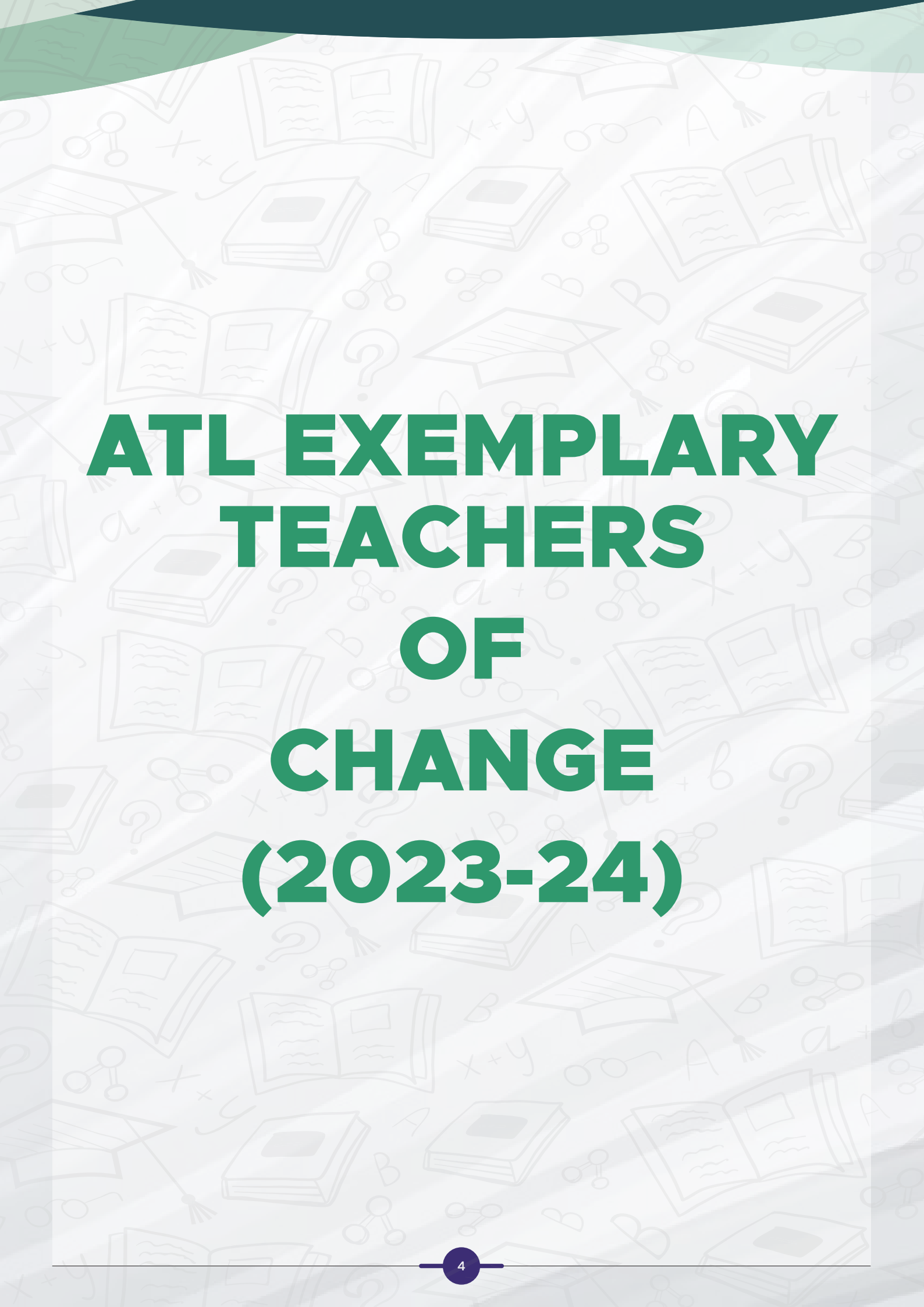
Why did we start the movement of ATL Exemplary Teachers of Change (EToC)?

ATL In-charges are the backbone who are driving the ATL initiative forward in their schools and local communities. They are the unsung heroes who deserve every bit of appreciation and encouragement from their students, the school and most importantly the AIM team at NITI Aayog. It is for this reason that the AIM team has initiated a recognition platform for exemplary teachers across ATLs in India through 'ATL Exemplary Teachers of Change'.



ROLE OF ATL EToCs





ATL EXEMPLARY TEACHERS OF CHANGE (2023-24)



SHIVAM RANA

.....
School : Mother India Public School
ATL UID : E9e63642
City : Bazpur | **State :** Uttarakhand

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We work on the advancement of technology, along with science, that helped us to become self-reliant in all spheres of life.

How are you inculcating the innovation mindset amongst your students?

Technology is one aspect of our lives that is constantly changing and plays a role in every person's life. Therefore we are creating projects related to daily life problems with a vision to inculcate new innovation mindset among students.



PABITRA MALIK

.....
School : Modern English School, Jeypore
ATL UID : 64d46972
City : Jeypore | **State :** Odisha

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL initiative stands out through regular classes that embrace creative mindsets, fostering flexibility and open-mindedness for a well-rounded educational experience.

How are you inculcating the innovation mindset amongst your students?

By fostering student participation in a diverse array of exhibitions and competitions, we cultivate a vibrant tapestry of skills and experiences

LUCKY CHOUDHARY

School : Pragyan Public School, Jewar

ATL UID : 7810667

City : Gautam Buddha Nagar | State : Uttar Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We pave the path to resolving community challenges through the ingenuity of our innovative projects

How are you inculcating the innovation mindset amongst your students?

Through orientation sessions and immersive field visits, we unearth the underlying issues deeply rooted within our society.

TANU PRIYA SHARMA

School : Army Public School Shankar Vihar

ATL UID : 81592835

City : New Delhi | State : Delhi



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our school's ATL fosters curious minds, offering freedom and opportunities for passionate children to innovate and design. Empowering future innovators, we create an environment for community impact through exploration and creation

How are you inculcating the innovation mindset amongst your students?

My fervent passion for learning and unwavering perseverance inspire my students to embrace these qualities for their own success. Instilling teamwork values, I guide students from ATL and Non-ATL schools toward achieving shared dreams through our motto 'Teamwork Makes The Dream Work.'



G LILY JEBAMALAR

.....

School : Dav Model School Iit Kharagpur

ATL UID : 69fc2368

City : Kharagpur | **State :** West Bengal

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our students have access to our ATL anytime, allowing interested students to work on projects during their leisure periods. Regular ATL classes are integrated into our everyday schedule, covering basics and providing hands-on experiences for students.

How are you inculcating the innovation mindset amongst your students?

I share innovation stories with them, provide knowledge on various components in the lab to arouse curiosity about their applications in projects. I appreciate every idea shared by students and motivate them to think outside the box. This approach helps in cultivating an innovative mindset.



AVANTIKA YADAV

.....

School : Jaypee Public School Noida

ATL UID : 16118562

City : Noida | **State :** Uttar Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Like the explorer ants, our Atal Tinkering Lab seeks out new opportunities that are complementary to the student's core capabilities. Just as an ant colony needs both explorers and worker ants to survive and thrive, our lab has a mix of strategists, designers, and makers.

How are you inculcating the innovation mindset amongst your students?

Great ideas come from everywhere from both external and internal sources. Therefore, we have engaged our students in a planned and structured way with different sources like parent partnership, industrial workshops and in house training sessions. vibrant tapestry of skills and experiences.

RAJESH KUMAR P

School : Kanchi Sri Sankara Academy Matric Hr Sec School

ATL UID : 34bc5244

City : Thoothukudi | **State :** Tamil Nadu



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We have developed engineering projects for students ranging from standard VI to XII. Regular classes are conducted to keep students engaged with the Atal Tinkering Lab.

How are you inculcating the innovation mindset amongst your students?

By implementing ATL Competitions and participating in nearby school competitions, my aim is to ensure that the mindset of innovation is deeply instilled in the minds of my students.

KOMAL KAPIL

School : Bhartiya Vidya Mandir Senior
Secondary

ATL UID : 94f511980

City : Ludhiana | **State :** Punjab



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

My students excel in their field at ATL, receiving national awards and numerous accolades, which exemplifies the passion that drives them.

How are you inculcating the innovation mindset amongst your students?

Motivating students wholeheartedly and dedicating time to their projects in ATL, I am shaping young minds towards innovation as a means of instilling an innovative mindset among my students.



RAMYA K

.....

School : Sri Sankara Vidyalayaa

ATL UID : 25879822

City : Karur | **State :** Tamil Nadu

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Regular use of ATL equipment sparks curiosity and nurtures children's imagination, fostering creativity. This empowers them to implement innovative ideas through project development, addressing real-world issues with a hands-on approach.

How are you inculcating the innovation mindset amongst your students?

By encouraging them to find solutions for various problems, we prompt children to think and act quickly, allowing them to ask as many questions as possible.



DIPANKAR PAL

.....

School : Lakshmiapat Singhanian Academy

ATL UID : C5d66899

City : Kolkata | **State :** West Bengal

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Each ATL year is distinctive, as we steer clear of a fixed curriculum, opting for a scenario-stimulated learning approach. Anticipating no repetition in learning for a decade, we prioritise dynamic and forward-thinking educational experiences.

How are you inculcating the innovation mindset amongst your students?

The biggest challenge is the rote learning process in Indian education. Therefore, it is essential that we shake it off initially, allowing new ideas to emerge. It's comparable to a seed sown too deep in the soil; I remove some topsoil to let innovation sprout.

PANKAJ KUMAWAT

School : Sunrise public school bansur Alwar Rajasthan

ATL UID : 29136281

City : Bansur | **State :** Rajasthan



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL lab is the first of its kind in the Bansur Tehsil area. As a result, not only our school's students but also those from neighbouring schools are visiting. Nearby schools are adopting innovative competitions like science exhibitions, the Inspire Award Manak competition, and various other innovative competitions.

How are you inculcating the innovation mindset amongst your students?

Our school team takes proper sessions and mentors' guidance, and also participates in idea-generating competitions as well as various other competitions conducted by Atal Innovation Mission, Niti Aayog.

NARENDRA SINGH RAWAT

School : Bhartiya Vidya Mandir Sr. Sec. School

ATL UID : 4c7911478

City : Ludhiana | **State :** Punjab



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL is a workplace where innovators of different ages and backgrounds collaborate to solve problems according to their abilities. This collaboration helps us reach national and international platforms.

How are you inculcating the innovation mindset amongst your students?

Our students bring problems from various places, and then I discuss these with everyone and draw conclusions through teamwork.



ROHITH V

.....

School : Hongirana School Of Excellence

ATL UID : 160d7652

City : Sagara | **State :** Karnataka

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL is located in the hamlet of Amatekoppa, surrounded by the lush green forests of the Western Ghats. Over 90% of our students come from agricultural families. We are among the first 257 ATLs in India and the first rural ATL in Karnataka.

How are you inculcating the innovation mindset amongst your students?

As a rural ATL, we believe in addressing local and community issues through science and technology. To achieve this, we are training our students in solving community problems using design thinking, innovative approaches, 3D modelling, AI, and IoT. This effort aims to provide the same exposure to our community's non-ATL students.



PANKAJ VERMA

.....

School : Government Senior Secondary School, Nagwain

ATL UID : 112612805

City : Mandi | **State :** Himachal Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL helps me instil a practical and experimental approach in students. Previously, building prototypes in a real sense was challenging. We provide them with the freedom to construct models, robots, and prototypes during the school's extra hours.

How are you inculcating the innovation mindset amongst your students?

By conducting ideation sessions and presenting various problems related to our surroundings, alongside providing more hands-on experience opportunities and facilitating interactive sessions with mentors, engineers, and other stakeholders.

GOURAV SHARMA

School : Learning Paths School

ATL UID : 2457867

City : Mohali | State : Punjab



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

The ATL of my school focuses on mentor - mentee relationship in which mentor as well as mentee are students. Most of the projects that are developed in the ATL are under the guidance of students.

How are you inculcating the innovation mindset amongst your students?

At the beginning of the year, we organise an Inter-House competition called the 'Science Tinkerathon,' open for students from classes VI to XII. The competition centres around identifying a problem, proposing a unique scientific idea, and presenting an innovative solution to address the issue.

RAJIB PAUL

School : Pranabananda Vidyamandir Lumding

ATL UID : 29c18415

City : Hojai | State : Assam



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

In our ATL, apart from our school students, we invite and involve the students of other schools and the community to make them digitally skilled and foster the culture of innovation & entrepreneurship in the society.

How are you inculcating the innovation mindset amongst your students?

Motivation and encouragement help to think beyond the textbooks. For successful implementation of new ideas, we take the students for field visits, interact with people, and identify the root cause of the problems faced by practitioners/ growers in daily life.



NAMRATA ALWADHI

School : Namrata Alwadhni

ATL UID : 74553878

City : Central Delhi | State : Delhi

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

I believe that the tinkering spirit and a passion for excellence have enabled us to rank among the top ATLS in the country.

How are you inculcating the innovation mindset amongst your students?

Problem-solving, empathy, willingness to help those who need help in innovation. Most innovations come from an open mind. Exposure to daily life problems, encouraging out of the box thinking, creative thinking are some of the ways.



DR DEVENDRA SINGH

School : Zila School Gaya

ATL UID : B8b93905

City : Gaya | State : Bihar

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL provides a space where young people can experiment, learn, develop, and conceptualise various scientific ideas. The labs are equipped with educational kits and equipment in electronics, science, robotics, sensors, 3D printers, computers, and open-source microcontroller boards, etc.

How are you inculcating the innovation mindset amongst your students?

Innovation requires an ignited mind which is in every living being and open space is required for its initiation. This space is ATL, because our children and teachers can show their intelligence

JEGATHEESWARI KARTHIK

School : Mahatma Vidyalaya
ATL UID : 2280796
City : Bangalore | State : Karnataka



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL is a platform to create student tinkers and provide opportunities for them to explore alternatives and create new options. In our school, we encourage students to imagine and dream and guide the students to bring that imagination into reality.

How are you inculcating the innovation mindset amongst your students?

To foster an innovative mindset, we follow the following practices: enhancing students' observation and empathising skills, placing idea boxes in each classroom, and organising idea competitions.

DR AMRITA SAXENA

School : Lalaji Memorial Omega International School
ATL UID : Fa281398
City : Chennai | State : Tamil Nadu



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Scheduled ATL classes in the timetable have significantly amplified active creative thinking among all students. Personally, witnessing their enjoyment and exploration of new horizons in innovation and creativity has been the most rewarding aspect for me.

How are you inculcating the innovation mindset amongst your students?

To foster an innovative mindset among our students, we have implemented an initiative called IDEA FACTORY. As part of this program, idea boxes have been strategically placed at various locations across the campus to collect problem statements, in addition to the Atal Tinkering Lab (ATL).



T.ANANTHI

.....

School : Subbiah Vidyalayam Girls Hr. Sec. School

ATL UID : 050e6391

City : Thoothukudi | **State :** Tamil Nadu

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

One of the best projects is “drip irrigation” in our ATL, and we motivate our students to bring innovations into practice regularly in day-to-day life.

How are you inculcating the innovation mindset amongst your students?

We provide opportunities to all students from standards VI to XII to explore their ideas and bring their visions to life. Through ample motivation and support, we nurture our students’ confidence.



DIGVIJAY NATH DWIVEDI

.....

School : Mamta Modern Sr Sec School

ATL UID : 31056576

City : New Delhi | **State :** Delhi

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL provides a perfect learning platform for students of community, we provide an environment to achieve the sustainable goals for society. We have started Artificial intelligence as a regular subject from the middle classes . In collaboration with intel our ATL gives the opportunity to students for learning and other higher technologies.

How are you inculcating the innovation mindset amongst your students?

I motivate my students to identify societal issues by conducting surveys. By fostering critical thinking and design thinking, I cultivate an innovative mindset among my students.

R. JAMUNA

School : Thanthai Periyar Govt Girls Hr Sec School

ATL UID : B055791

City : Pondicherry | **State :** Pondicherry



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We are creating a homely atmosphere for students to utilise the lab at any time with the facilitator and IoT. Being surrounded by such high-tech equipment helps their brains evolve and incline towards innovation.

How are you inculcating the innovation mindset amongst your students?

Motivating the students in creating awareness of the society's problems and bringing out solutions for the same through ATL is how we are inculcating innovative mindsets amongst our students.

DR DHANANJAY PANDEY

School : Government Multipurpose Hr Sec School

ATL UID : Cbd03014

City : Bilaspur | **State :** Chhattisgarh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Initially We had to call the Students For Tinkering in 2017 but now even at night at 10 PM I have to request the Students to Leave the Lab . Tinkering is Now the Passion of the Students.

How are you inculcating the innovation mindset amongst your students?

The Students are motivated to be in the lab From 8 AM in the morning to 10 PM in the Evening taking their Experiments without any Fear of Breaking the Apparatus. The Students Reach to the Community in search of their Problems frequently throughout the year, helping the community in their needs.



PRASANNA JANARTHANA . S

.....

School : Ramco Vidyalaya

ATL UID : 40679084

City : Virudhunagar | **State :** Tamil Nadu

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

According to me ATL is an Any Time Latest futuristic skills we choose to instil in the students. In the school few of the ATL students are interested in block based coding, where they learn programming languages easily.

How are you inculcating the innovation mindset amongst your students?

We bring them with the pattern of ATL Lessons with coding(blocks) and basics of electronics (blocks) that the students can learn easily and we give timely assignments on their basis of learning.



SHALINI BINDRA

.....

School : Bal Vidya Mandir Sr. Sec. School

ATL UID : 7BE71898

City : Sambhal | **State :** Uttar Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our school is in a rural area, and having an ATL Lab here has given wings to the thinking of the children. For the last 7 years, we have been operating in this area, providing new opportunities to shape the innovative thinking of the children. This makes our lab unique.

How are you inculcating the innovation mindset amongst your students?

We have made our children aware of the various problems in the local area. To find solutions, I utilise suggestions from resource persons and conduct interviews with people facing these issues. Afterward, we gather remedies or ideas proposed by students, compile them, and guide students to work as a team.

NEERU MITTAL

.....

School : Shaheed Rajpal DAV Public School, Dayanand Vihar

ATL UID : 283f12158

City : Delhi | **State :** Delhi



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

The ATL of the school has experiential learning at its core. Through the Industry Connect approach the students gain onsite experiences. The students participate in different National and International competitions wherein students develop solutions to real life problems.

How are you inculcating the innovation mindset amongst your students?

The students learn 21st century skills – creativity, communication, critical thinking and collaboration through different online and offline collaborative projects. They have been visiting old age homes, orphanages etc. to gain knowledge and understanding of the challenges in our society.

SARITHA VIJAYACHANDRAN

.....

School : Bhavan's Vidya Mandir, Girinagar

ATL UID : A8ac5369

City : Ernakulam | **State :** Kerala



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Initially we had to call the students for tinkering in 2017 but now even at night at 10 PM I have to cater to the interest of the enthusiastic kids, ATL sessions are held after school where they can refine their concepts into functional models. ATL sessions are available to every student in grades 6 through 12.

How are you inculcating the innovation mindset amongst your students?

Well, there is one notion I strongly believe in my heart: every kid is a genius at something. It is up to us as facilitators to find that spark and encourage them to pursue it. Open communication ensures the free expression of all the students involved. We encourage students to work on every idea they have, whether small or big.



HIRAK BISWAS

.....

School : D.B.M.S. English School

ATL UID : 8f5d5910

City : Jamshedpur | **State :** Jharkhand

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

In our school ATL we endeavour to inculcate skills such as design mind set, computational thinking, and adaptive learning through STEM education. Some of the best practices which are followed in our ATL are introduction of ATL class in our regular curriculum for all students from class VI to Class XII and extended working hours for ATL every day so that students can work on their innovative projects even after school hours.

How are you inculcating the innovation mindset amongst your students?

The Atal Tinkering Labs under the Atal Innovation Mission (AIM) has been a great platform to foster curiosity, creativity and imagination in young minds. In the last five years my role as a mentor and ATL in-charge was very interesting and a learning experience by promoting practical based activities for Learning and sharing students experience.



JITHAMOL B

.....

School : SPIC Nagar Higher Secondary School

ATL UID : 19845829

City : Tuticorin | **State :** Tamil Nadu

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Innovative and creative thoughts of young minds make SPIC school Atal Tinkering lab a unique one. Regular engaged students are nurtured to develop model prototypes through additive manufacturing technology.

How are you inculcating the innovation mindset amongst your students?

Conducting the ideation sessions for the children from class 6 to 9. Motivating them to think about the various challenges and suggest solutions. If the ideated solution is an innovative thought, guiding them to make pencil sketches by themselves. If not, asking them to find out any existing solutions available with the same concept.

KANGABAM HEROJIT SINGH

School : Churachand Higher Secondary School

ATL UID : 16088342

City : Imphal | State : Manipur



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL is unique because we emphasise hands-on learning. We encourage students to experiment and tinker with different technologies and materials to foster their creativity and problem-solving skills. We foster a culture of collaboration and teamwork by providing opportunities for students to work together on projects and problem-solve as a team.

How are you inculcating the innovation mindset amongst your students?

For inculcating the innovation mindset amongst the students, I am constantly encouraging students to think outside the box and to challenge assumptions. I teach them how to approach problems in a systematic and creative way, and how to iterate on their solutions.

JINCY SREEJITH

School : Amrita Vidyalayam, Thalassery

ATL UID : Ccd44504

City : Thalassery | State : Kerala



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL is a creative workspace that is suitable for our young minds to learn innovation skills, develop ideas via hands-on activities, work and learn in a flexible environment. To stimulate inventiveness among students, ATL conducts different activities that range from regional and national level competitions to exhibitions.

How are you inculcating the innovation mindset amongst your students?

We inculcate our students to develop the desire to engage with empathy, passion, sense of humility and also builds curiosity for the practical orientation. We also train children to reframe challenges as opportunities, providing them opportunities for self-evaluation too.



GEETA ARORA

School : Gita Niketan Awasiya Vidyalaya

ATL UID : 167b11785

City : Kurukshetra | State : Haryana

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our Atal Tinkering Lab was established in 2017. In the same year, one of our teams was selected in the ATL Marathon 2017-2018's top 100 entries and presented their project at the Vibrant Gujarat Summit. Additionally, 12 students (from 2017-2022) have received the INSPIRE MANAK Award, which includes a prize of Rs 10,000 each. Out of these 12, four students were selected at the state level, and one student presented their project at the national level.

How are you inculcating the innovation mindset amongst your students?

Creativity, Invention and innovation are the central pillars. Different sessions which aim at honing the research and analytical skills are conducted in the lab from time to time. Students are encouraged to think in new ways by always giving them new targets. I'm delighted to motivate my students in the development of new innovations.



AJAY KUMAR ARYA

School : Maa Anandmayee Memorial School

ATL UID : 52712813

City : Raiway | State : Uttarakhand

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL is a platform for each and every student even for other schools as well as community peoples. It is giving wings to the idea of an individual - to be involved in the ideation to prototype Stage.

How are you inculcating the innovation mindset amongst your students?

Inviting Students from community and other government schools. They engage with us and learn digital skills, 3d printing and designing ,etc.

DR. MANISH JAIN

School : Subodh Public School

ATL UID : A1979191

City : Jaipur | State : Rajasthan



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL has incorporated Special Coding classes with external agencies for all classes from 3 onwards. ATL students present their talent in all school functions by presenting something special.

How are you inculcating the innovation mindset amongst your students?

Alumni and parents are great support, introduction of separate coding classes, introduction of Design Thinking Module and incorporation of ATL period in regular timetable are ways we are inculcating the innovation mindset amongst students.

MS VANDANA DEEPAK

School : D. A. V. Public School, Vasant Kunj

ATL UID : D1c18674

City : New Delhi | State : Delhi



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL Lab is a creative workspace that is suitable for our young minds to learn innovation skills, Solving the issues by applying creative and out of the box thinking. Therefore becoming the first solar powered ATL in India in 2018 and Role Model ATL in July 2022; engaging the community by organising training sessions/ workshops/ devoted Saturdays.

How are you inculcating the innovation mindset amongst your students?

We instil the innovation mindset through collaborative projects, fostering teamwork and problem-solving. We encourage students with diverse skills to collaborate on interdisciplinary projects, cultivating a culture of creativity.



RANI VAID

.....

School : Bal Bharati Public School , Noida UP

ATL UID : 8380546

City : Noida | **State :** Uttar Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Initiatives like “Atal Baal Prangan” sparks a collaborative spirit, wherein winners of competitions share their participating journey with their peers .The school invites ATL alumni back for the “ATL Alumni Program,” where they share their experiences and offer guidance to current students.

How are you inculcating the innovation mindset amongst your students?

Special events for girl students were conducted to promote their participation in STEM based events . Collaboration with Mentors of Change and industry experts, as well as providing training programs for Math, Science and IT teachers in regard to IPR, Design Thinking, etc to keep their knowledge fresh, create a mentor army for the next generation of changemakers.



HARGUN ARORA

.....

School : Birla Shishu Vihar

ATL UID : E6ae2613

City : Pilani | **State :** Rajasthan

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

In ATL we help students to bring their ideas into reality. We identify the problem statement from the society & provide an innovative solution for the same.

How are you inculcating the innovation mindset amongst your students?

We encourage the students to identify real-life problems , help them to define & ideate the solution to further make an environment friendly prototype for bringing a positive change in the society.

KAVITA TEWARI

School : Delhi Public School ,Sector 45,Gurgaon

ATL UID : 57841064

City : Gurgaon | State : Haryana



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We have made our ATL an integral part of the school curriculum for classes 5 to 10 where students are encouraged for brainstorming and ideation. Senior students also work on their ideas and projects but guide their juniors too.

How are you inculcating the innovation mindset amongst your students?

To inculcate innovation we focus more on practising or doing new things. Orientation sessions followed by lab visits at the beginning of the session are conducted for the students to make them aware and excited about this wonderful facility.

DR ZEBA AYAZ

School : Rabea Girls Public School Delhi

ATL UID : 31503726

City : Delhi | State : Delhi



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Encouraging student interaction and ideas exchange between students of neighbouring schools and organisations dealing with the education of underprivileged children. A desire to learn by myself and make my students learn innovative solutions motivates me the most.

How are you inculcating the innovation mindset amongst your students?

Innovative mindsets possess qualities such as “perseverance, initiative, collaboration, tenacity, and curiosity. By Implementing Project-Based Learning and Challenge Based Learning in my classroom, Share news about innovation related to subject area and create opportunities for students to talk to professionals at various stages of their careers.



GAURAV KUMAR

.....

School : Sandhya Modern High School

ATL UID : E6445797

City : Patna | **State :** Bihar

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL's uniqueness in our school lies in its emphasis on motivation and thinking big. These two factors distinguish our approach, fostering an environment that encourages ambitious thinking and self-driven motivation.

How are you inculcating the innovation mindset amongst your students?

Problem solving attitude and using creativity is what we use to inculcate an innovative mindset amongst students thus creating value for society and becoming job creators.



MEENAKSHI BABBAR

.....

School : Darbari Lal DAV Model School

ATL UID : 807d369

City : Delhi | **State :** Delhi

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

DLDAV Model School, Shalimar Bagh was among the first phase of schools selected to set up the ATLs. Our ATL provides an enabling environment for students to innovate through a DIY approach. The Lab is equipped with sophisticated machines and instruments such as 3D Printers and Microcontrollers for honing the technical and innovation related skills of students.

How are you inculcating the innovation mindset amongst your students?

The objective of our ATL is to foster curiosity, creativity and imagination in young minds; and to inculcate skills such as design mind set, computational thinking, adaptive learning, physical computing etc.

MANISHA GIROLKAR

School : Dr. Kalmadi Shamarao High School, Ganesh Nagar

ATL UID : 25217100

City : Pune | **State :** Maharashtra



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

At KHSG, our primary goal is to provide young students with opportunities to grow and learn in a supportive atmosphere. To achieve this, we have incorporated an ATL period into our timetable to ensure that every student has the opportunity to take advantage of the ATL platform.

How are you inculcating the innovation mindset amongst your students?

To cultivate an innovative mindset, we begin by instilling empathy for societal problems, ranging from local to global issues. We believe that by understanding the problem and the impact of solving it, innovation will naturally follow.

MR. SIDNEY LOURENCO

School : Fr. Agnel Multipurpose High School

ATL UID : 4FD98584

City : Verna | **State :** Goa



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Encouraging self-learning, exploration, research, and knowledge-sharing among students defines our approach at ATL. This fosters a collaborative environment where students take charge of their learning journey.

How are you inculcating the innovation mindset amongst your students?

By encouraging the students to bring their ideas to life and inspiring them to innovate by making them aware of the latest innovation and discoveries in today's world.



MINOO BHATIA

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School : Mount Abu Public School
ATL UID : 10627285
City : Delhi | **State :** Delhi

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL at our school is by the learners, for the learner under the guidance of their facilitator. Learners are given frequent opportunities to practise and explore their innovations and they come up with magnificent ideas.

How are you inculcating the innovation mindset amongst your students?

To inculcate their innovation, we engage them in various sessions where they are given techniques to boost up their creative thinking. We listen to their innovative ideas and always encourage them, as we believe it serves as a token of appreciation.



CHARU DHODI

.....
School : DL DAV Model School, Pitampura
ATL UID : 1417218
City : Delhi | **State :** Delhi

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

DLDV Pitampura's ATL is an amalgamation of functional and resilient infrastructure promoting innovation along with integration of skills to meet future needs. Regular participation in events like AIOT Integration, IBM Skills Build, Tinkerfest, Community day, Financial Literacy, ATL Marathon, Tinkerpreneur etc. motivates students to be engaged in higher-level critical thinking.

How are you inculcating the innovation mindset amongst your students?

As a facilitator I always try to ignite the spark in the minds of students by creating awareness, providing them access to resources and encouraging them to participate. Sharing of knowledge and experiences and organising peer mentoring groups to enhance the participation of students are the key to success.

M.ARIVANANTHAM

School : Pushpalata Vidya mandir
ATL UID : 26826380
City : Tirunelveli | State : Tamil Nadu



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Following our mission “Love Learn Lead” we create various opportunities for young entrepreneurs to love and learn in order to improve their practical intelligence in experimenting and conceptualising different scientific ideas.

How are you inculcating the innovation mindset amongst your students?

We conduct regular ATL classes in the lab to develop entrepreneurial skills in the market today like problem-solving, flexibility, adaptability, taking the initiative, self-awareness, and resilience.

DR. HIMANI KOHLI

School : Dav Centenary Public School, Paschim Enclave
ATL UID : 31487561
City : Delhi | State : Delhi



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our motto is to make Job Creators rather than Job Seekers. Our ATL is truly one-of-a-kind. Our focus is on providing students with resources and support they need to bring their ideas to life. We believe that the best way to encourage innovation is by giving students hands-on experience with the latest tools and technologies such as 3D printers, microcontrollers, sensors.

How are you inculcating the innovation mindset amongst your students?

We foster an innovative mindset among our students very passionately at our ATL DAVPE . We believe that this is what sets successful STEM professionals apart and gives our students the edge they need to succeed in their careers.



RAMEETA VASUDEV SHARMA

School : DCM Presidency School

ATL UID : a7229109

City : Ludhiana | State : Punjab

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Along with transecting information about technology through IoT and LEGO, I have provided them the opportunities to get hands-on experience in working with various projects based on core concepts of science and simple to medium complexity-level mechanical engineering projects.

How are you inculcating the innovation mindset amongst your students?

Motivation and perseverance are the two important elements for making any endeavor successful. I have created a culture in the lab where students are guided to identify their areas of interest and the right opportunities.



RAHUL SHANDILYA

School : Vidya Vihar Residential School

ATL UID : b7ed9478

City : Purnea | State : Bihar

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

It is a world of IoT, Robotic kits, STEM kits, etc where imaginations become reality. The interaction with students at the ATL especially the nearby school students who have some amazing ideas of indigenous innovations drives and motivates me to continue this journey.

How are you inculcating the innovation mindset amongst your students?

It is the best platform to bring the do-it-yourself culture among students. As an ATL In-charge, I encourage and motivate students to become solution providers and get engaged in self learning without any hesitation.

IVAN DORJEE LEPCHA

School : Paljor Namgyal Girls' School

ATL UID : f3fa403

City : Gangtok | State : Sikkim



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

There's ample space to move around, grow, learn, explore and more importantly, talk! The openness we provide at our ATL is what makes it unique. We cultivate innovative minds.

How are you inculcating the innovation mindset amongst your students?

By constantly engaging them in various activities, events and competitions. Also looking for an opportunity to integrate the mainstream syllabus with future technologies wherever possible.

BRAJENDRA SINGH GOUR

School : Delhi Public school Gwalior

ATL UID : 776b11353

City : Gwalior | State : Madhya Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL students embark on distinctive projects closely tied to advanced technology, while we teachers provide guidance in a uniquely tailored manner. This approach ensures a hands-on and innovative learning experience.

How are you inculcating the innovation mindset amongst your students?

We are linking students' interest with technology and how it can help students in the future. This is how we inculcate a creative mindset amongst students.



MANOJ KUMAR SINGH

.....

School : Bishweshwar Seminary

ATL UID : 1e633153

City : Chapra | **State :** Saran

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

The use of educational projects for teaching inculcates ideas in students to think beyond classroom teaching and deeply understand the application of theoretical knowledge in the real world. In addition, the reach of ATLs in rural parts of India ensures that children from all factions of the society get equal opportunities to develop and compete at global level.

How are you inculcating the innovation mindset amongst your students?

Students are taught to think beyond the classroom, using educational projects, to apply their theoretical knowledge in the real world. They are repetitively encouraged to not limit their thinking to textbooks. Students are regularly monitored for motivation to take up global challenges and propose unique solutions.



DR.M.S.PATRO

.....

School : St.xavier's High School, Bharni

ATL UID : ef929028

City : Bilaspur | **State :** Chhattisgarh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL stands out by seamlessly integrating the teaching-learning process with AI and IoT, creating a unique blend of technology and joyful, art-integrated learning. This distinctive approach enhances engagement and comprehension in an innovative educational environment.

How are you inculcating the innovation mindset amongst your students?

By conducting periodic motivational sessions, seminars, and workshops we inculcate a creative mindset among students.

SWABIR K R

School : Calicut Girls Vocational & Higher Secondary School

ATL UID : 20808109

City : Kozhikode | **State :** Kerala



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Special Coaching during morning and evening hours, dedicated ATL periods, and Saturday sessions exclusively for ATL Core Students are integral components embedded in our timetable. This ensures that every student has the opportunity to engage with ATL Labs.

How are you inculcating the innovation mindset amongst your students?

By conducting brainstorming sessions, identifying real-life problems, and solutions to the problems. Once the Problem and Ideas are approved by the ATL Teachers Team, project/product development can be started by the student team. This is how we inculcate a creative mindset.

KIRAN KUMARI

School : Kendriya Vidyalaya Dharamshala Cantt

ATL UID : B598777

City : Dharamshala | **State :** Himachal Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

To encourage the young minds to combine creativity and logic by offering them do-it-yourself kits that would contain equipment related to robotics, electronics, science, 3D printers, sensors, etc.

How are you inculcating the innovation mindset amongst your students?

Be open to change. To be open to change means to admit and embrace the notion that the world is in constant transformation and all areas of society are challenged by this change. Thus, an innovative mindset is to truly embrace creativity. We encourage students to think big, show courage, and act fast.



SUBODH KUMAR TIWARI

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School : Govt Kuldip Nigam Hr. Sec. School, Narra

ATL UID : 38042340

City : Mahasamund | **State :** Chhattisgarh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We started an Atal tinkering yatra to a non-ATL school in our block. Some basics of ATL modules are demonstrated there, with students of non-ATL schools to inspire them towards innovation.

How are you inculcating the innovation mindset amongst your students?

After the establishment of ATL in our school, I organised workshops for the identification of problems that can be solved for the betterment of their own or their parents. This initiative will bring closure to rural people and an innovative environment can be created in our surroundings.



PAWAN KUMAR PATIDAR

.....

School : Kendriya Vidyalaya Khargone

ATL UID : 23545506

City : Khargone | **State :** Madhya Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

In my lab, the students are free to make projects of their choice and if there is any further scope in their project, I always guide them. In the ATL of K.V Khargone students are free, they make mistakes and they learn by themselves. Students willingly stay after school and even come to the lab on holidays.

How are you inculcating the innovation mindset amongst your students?

We organise Unique Idea Competitions at the school level for students, We have a unique idea virtual wall and also a unique idea box in which they can submit their ideas. We also conduct meetings over new problems and how we can do more innovation in old projects. The best practice of ours is to have a chat on innovation and ideas with students once a week in assembly.

SONAL JATIN SHAH

School : New Era Senior Secondary School

ATL UID : Ea3c9223

City : Vadodara | State : Gujarat



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

My team and I identify real-life problems and applications and try to solve them through innovative efforts and ideations. Instead of simply educating children about technologies and IoT, we help them understand their real-world applications, which encourages them to see science as a practical method to solve world problems.

How are you inculcating the innovation mindset amongst your students?

We encourage them to identify the problems and issues they experience and observe around them, in their own surroundings. When they observe these issues in their day to day life, they're more inclined towards finding practical solutions for them. This is what ignites innovation for young minds.

EKTA SONI

School : Amity International School, Sector 6 Vasundhara

ATL UID : 950b1248

City : Ghaziabad | State : Uttar Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL period was introduced as a part of the regular timetable for classes 3 to 9. Constant guidance from mentors and guide teachers for developing innovative ideas into working prototypes, Proactively receiving ideas, and getting the prototypes patented are a few things that make our ATL unique.

How are you inculcating the innovation mindset amongst your students?

Conduct ideation sessions and develop an inclination towards innovation, regular follow-up on any novel ideas given by students is how we inculcate a creative mindset amongst students.



S. SANTHOSH KUMAR

.....

School : Amrita Vidyalayam Senior Secondary School

ATL UID : 7e483299

City : Chennai | **State :** Tamil Nadu

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We use the latest Equipment and upgraded technologies. My young champs are interested in using 3D printers and CNC machines. My students have developed a few innovative ideas including; Automatic Sewage Cleaner, Planetro Puri, Peer To Peer file transfer software, Anti Braking System, Adult Fingerprint Scanner, Anti Traffic Controller System, etc.

How are you inculcating the innovation mindset amongst your students?

Mostly I talk to students in a friendly way and listen to their ideas to bring out their innovative skills from them. I visualise the concept on the projector and explain them in a clear way to understand. Make Hand-on activity learning regularly. I cheer them up by giving them some amazing gifts.



MR. AKSHAY C. PATIL

.....

School : Sanjay Ghodawat International School

ATL UID : 71171027

City : Kolhapur | **State :** Maharashtra

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL is a good platform to inculcate skills such as design mindset, computational thinking, and adaptive learning. Our Leader, Director-Principal Mrs. Sasmita Mohanty Ma'am always adapts the latest, advanced curriculum and focuses more on the skills subjects. We have included ATL as a compulsory subject. We make our students think about the different community problems and find the solutions to that.

How are you inculcating the innovation mindset amongst your students?

To inculcate an innovative mindset, we conduct workshops to make students think out of the box and to come up with extraordinary solutions. We are making students think about various problems and making them find out all possible ways to solve that problems.

RAGHUVENDER SINGH SISODIYA

School : D.C Model Sr Sec School

ATL UID : d1729582

City : Ferozepur Cantt | State : Punjab



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We make different types of Innovations on different types of themes but our greatest achievement is the Dassault system program Seed the future Entrepreneur. We created a prototype of a small type of Robot that tow a four-wheeler from a remote area if your vehicle is damaged. This year our school ATL won 16 achievements in National and State events.

How are you inculcating the innovation mindset amongst your students?

One aspect of an innovative mindset is to truly embrace creativity. To equate innovation with art doesn't rule out the necessity of structure, processes, and methodology for innovation. However, the innovation-as-art perspective stresses that the starting point for innovation is creativity, rather than the implementation of management processes and organisational structures for innovation. Which, in turn, requires a certain kind of culture.

DEEPAK KUMAR

School : Surevin International School

ATL UID : 33243414

City : Modinagar | State : Uttar Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Engaging actively in community outreach programs and participating in innovative initiatives are key facets that set our ATL apart. This involvement encourages students to apply their skills beyond the classroom, fostering a sense of community impact and innovation.

How are you inculcating the innovation mindset amongst your students?

We offer access to new technologies and IoT-based machinery and software through online platforms.



SWAGAT HALDAR

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School : Sunbeam English School, Bhagwanpur

ATL UID : 68096663

City : Varanasi | **State :** Uttar Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL is unique because we are not only thinking about building something new, but we focus on finding solutions to the problem statement on which others are not focussing. We always try to interact with the non ATL students by providing them with regular mentoring sessions and also encouraging them to give structure to their ideology.

How are you inculcating the innovation mindset amongst your students?

Be open to change. To be open to change means to admit and embrace the notion that the world is in constant transformation and all areas of society are challenged by this change.



ARBIND SINGH

.....

School : School of Creative Learning

ATL UID : bf0e687

City : Patna | **State :** Bihar

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We cater to the weaker sections of rural Bihar. Every year INNOFEST is organised where children showcase their innovation. ATL encourages children to design Robots to unfurl flags, a working model of Canon to salute the national flag, etc. Here children are encouraged to maintain an ideal diary. Ideas are firmed up in Design thinking workshops to finalise the prototypes of models.

How are you inculcating the innovation mindset amongst your students?

At School of Creative Learning creativity and innovation is addressed right from nursery classes. From class three, they make electronic models. From class 6, children work on Robotic, IOT, 3D Printing and Drone models. They manage all events in cultural functions themselves. We also have creativity and innovation linked activities in all semester evaluations as well.

PANKAJ MANKOTIA

School : GSSS Fatehpur

ATL UID : 10052018

City : Fatehpur | State : Himachal Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

The distinctiveness of our ATL Lab is exemplified by 6th and 7th-grade students, who, through various projects, earned INR 21,000 from a 3D Entrepreneur Company, showcasing the program's practical impact and entrepreneurial focus.

How are you inculcating the innovation mindset amongst your students?

Innovation is a question of mindset, and creating that mindset precedes everything else. In my opinion, it's the innovation mindset that overrides the aspects of human nature that are often holding back innovation in large organisations.

AMIT CHANDRA BHATT

School : P.P.S.V.M.I.C Nanakmatta, Udham Singh Nagar

ATL UID : 05D27243

City : Nanakmatta | State : Uttarakhand



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

The uniqueness of our ATL lies in its focus on innovation and catering to the interests of children. These two elements define our approach, ensuring an engaging and personalised learning experience.

How are you inculcating the innovation mindset amongst your students?

We cultivate innovation by showcasing examples from our surroundings. This approach inspires a creative mindset among our students.



AKSHAY MANE

.....

School : Vidyadeep High School

ATL UID : 31081127

City : Pune | **State :** Maharashtra

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We are including many underprivileged children from slum areas, who are not from our school but want to learn, all for free. Through this, nearly 400 children have benefited.

How are you inculcating the innovation mindset amongst your students?

Yes, indeed. Many students have successfully crafted innovative solutions, showcasing their creativity and problem-solving skills.



UMESH KUMAR BAJAJ

.....

School : Dass and Brown World School

ATL UID : 29427114

City : Ferozepur | **State :** Punjab

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

In our ATL Lab, we test our capabilities and improve them from the previous days. Whatever project we have created from software to hardware, from electrical to mechanical, all were just our imaginations in the starting stages, but when these imaginations are turning into reality, our enthusiasm increases. This is what makes us unique.

How are you inculcating the innovation mindset amongst your students?

Students are already innovative, we are motivating them to be imaginative. We are teaching them the basic concepts and with those basics, they are creating wonders. We are interacting with students, especially from the nearby rural areas, and giving them opportunities to work in the ATL, nurturing them to become future innovators.

MONIKA SHARMA

School : Rainbow international school, Nagrota Bagwan

ATL UID : d69f7304

City : Nagrota bagwan | **State :** Himachal Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

The active participation of all students from class VI to X sets our ATL apart. Students willingly engage in diverse projects, showcasing a genuine interest and enthusiasm, which contributes to the vibrancy and success of our ATL initiatives.

How are you inculcating the innovation mindset amongst your students?

By trying to make them aware of the problem around them and how they can be part of problem-solving. They are focusing on positive actions rather than traits.

VISHAL KUMAR

School : GBSSS Nadaun

ATL UID : ea2d2102

City : Nadaun | **State :** Himachal Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL has open access for all types of learners, especially for neighbour school and community learners.

How are you inculcating the innovation mindset amongst your students?

Motivating Students towards innovation practices by doing yourself an option and learning by doing itself.



KAVITA RANI CHOPRA

School : DAV public school, Sahibabad

ATL UID : 205611306

City : Ghaziabad | State : Uttar Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL envisions enabling technology. Our students bagged silver medals in the 'Line Follower' competition under 'ROBO WALK'. A leading step in this field has been to provide exposure to aspirants about applications of aeromodelling. To inculcate sensitivity toward the dire condition of water resources, a workshop was conducted by the ATL Mentor.

How are you inculcating the innovation mindset amongst your students?

Students undertook different sessions in coding-decoding, Robotics, Aeromodelling, clean energy, clean water, and Biotechnology and participated zealously to experience the skills and techniques intrinsic to innovation. Niti Aayog, New Delhi felicitated them with special badges for being 'ATL Student Innovators'. Facilitating students with state-of-the-art infrastructure students attended the ALL INDIA DIC MEET organised by the Design Innovation Centre (DIC) at SPA, New Delhi under the aegis of the Ministry of HRD.



SARIKA GROVER

School : Modern Public School, Shalimar Bagh, Delhi

ATL UID : 15c69182

City : Delhi | State : Delhi

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

At Modern public school, we have appointed two engineers who regularly mentor our students in their projects. The prototypes designed by our students are mentored by experts and exhibited at ATL fest. We also promote learning amongst the underprivileged of our neighbourhood community through 'school after school program' in collaboration with NGO Sarthak prayas.

How are you inculcating the innovation mindset amongst your students?

We at MPS promote innovatively and thought-provoking activities amongst our students. The Atal Tinkering Lab has designed a special curriculum appropriate for age to foster their idea into action. The teacher mentors group the students and facilitate them to identify the problems in their society.

PHANEENDRA J

School : Nagarjuna Model School

ATL UID : 1568810

City : Kadapa | State : Andhra Pradesh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Tinker champs Student Mentor program is a unique program to spread a culture of innovation & entrepreneurship among students. Our students are working on building a social venture to develop entrepreneurial skills among 1 million rural children across the country.

How are you inculcating the innovation mindset amongst your students?

The school is inculcating an innovative mindset among students through the Tinker Champ Club, where students undertake a variety of student-led initiatives and mentor their peers on innovation projects. Through their initiatives and involvement, they are spreading a culture of creativity, innovation and entrepreneurship among the larger student population.

VANDANA RAJPUT

School : Salwan girls sr.sec.school, Old Rajinder nagar

ATL UID : 7c5611784

City : New Delhi | State : New Delhi



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our ATL is well equipped and accessible to all students from grade 6th to 12th. ATL alumni pursuing B.tech (computer science) also visited school ATL to build their projects and take sessions. We celebrate ATL Community day every year and encourage students to participate in events organised by AIM (ATL Marathon), C.B.S.E science exhibitions or any other science events like inspire Award. Students build their ideas by taking guidance from teachers.

How are you inculcating the innovation mindset amongst your students?

By conducting sessions on design thinking and imparting software skills. Recently students made QR codes for the fruit trees of the school which they learnt in ATL bootcamp. We also invite eminent people in the field of science like Mr.Gabe Gabrielle, Former Engineer at Kennedy Space Center, NASA. We also provide mentor support for the students to build their ideas.



NILESH DNYANDEO PATIL

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School : Dhruv Global School

ATL UID : Bf1e5130

City : Sangamner | **State :** Maharashtra

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We provide a tension free atmosphere to students and allot them real-time projects. This ensures hands-on practice for every student.

How are you inculcating the innovation mindset amongst your students?

We inculcate innovation by giving in depth knowledge about a particular subject/project and by assigning tasks regarding that project. We also encourage students to bring their own ideas.



POOJA SHARMA

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School : Delhi Public School, Mandla Road

ATL UID : beb94030

City : Jabalpur | **State :** Madhya Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We are enthusiastic and participative in all ATL competitions. We also take up challenges internationally too for sustainable development and bring ATL activities to develop new ideas.

How are you inculcating the innovation mindset amongst your students?

We inculcate innovation by creating a sense of concern towards nature and sustainability and subjecting students to different situations which lead them to think out of box. It is also done by developing seed for creative and innovative thinking through various activities at each level of learning.

SACHIN GUPTA

School : YS Public School

ATL UID : 34241845

City : Barnala | State : Punjab



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

ATL at our school is not just a lab but it has become a space where students come up with their own ideas. Our students also assist the external students who visit our ATL for a free workshop. YS Students are participating in state and national level competitions and bringing home laurels .

How are you inculcating the innovation mindset amongst your students?

The students are inculcating innovation through the new ideas that the ATL is clubbing with everyday science. Learning here takes the form of experiments and projects. We don't stop at saying best out of the waste but also motivate our students to make new things out of the waste material. Teachers motivate students to come up with their own ideas which are later discussed in the classes.

PRINCE SHARMA

School : Model Academy

ATL UID : e28c6029

City : Jammu and Kashmir | State : Jammu and Kashmir



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Involvement of my students in innovation and their passion for tinkering. We provide a platform to all who want to contribute to make in India.

How are you inculcating the innovation mindset amongst your students?

I develop curiosity and encourage a curious way of thinking. I ask them to think big and keep them free to think and design. I also encourage them to take risks and learn from failure.



SUJATHA S

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School : Perunthalaivar kamarajar Govt Girls Sr. Sec School

ATL UID : 19456156

City : Tiruvallur | **State :** Tamil Nadu

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

Our School students are Unique. Our school HM and our teachers are giving ideas and helping the students to complete their projects.

How are you inculcating the innovation mindset amongst your students?

Giving more freedom, providing the resources to implement innovative ideas, and nourishing students' creativity. Recognizing Student's efforts.



NARAD KUMAR PANDEY

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School : Radiant International School

ATL UID : 73a610887

City : Patna | **State :** Bihar

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We organise robotics competitions annually, and our students consistently rank among the top 100 teams in challenges organised by AIM. Several teams have even secured successful IBM mentorships. One of our students, Vaishnavi, was selected as the No.1 Idea Ambassador nationwide in the YI (Youth Ideathon) Ambassador Program 2022. Another student, Sparsh, was selected for an international challenge and achieved the top rank worldwide.

How are you inculcating the innovation mindset amongst your students?

To inculcate an innovative mindset amongst students I am working on Project-Based Learning which promotes creativity, problem-solving attitude, and Practical thinking ability. My ATL focuses on practical learning rather than Rote Learning and thus initiates a change in the mindset. It makes room for open-ended questions.

RAJSHRI KHAIRNAR

School : Cantonment Board High School, Deolali camp

ATL UID : 5832571

City : Nashik - Deolali Camp | **State :** Maharashtra



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

In our ATL young minds shape their ideas through hands-on do-it-yourself mode. In our ATL we provide opportunities for students and work with tools and equipment to understand the concepts of Science, Technology, Engineering, and Math. We also arrange workshops for students & ATL Teachers.

How are you inculcating the innovation mindset amongst your students?

In our ATL we are creating awareness about innovation. Students give information about current technology trends & day to day changing technology . Every day something changes in technology & these changes make young innovators. You will be the next innovator hence think logically & develop a problem-solving approach with technology and learn new trends in programming language.

DR. ARUL KUMAR

School : Stepping Stones School

ATL UID : EA3E9807

City : Chandigarh | **State :** Chandigarh



What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We enable scientific thinking in children through thought evoking discussions with children. This in turn helps us ensure that the students are in charge of what technical skills they want to learn. Doing so helps keep the children highly motivated and invested in the projects they are doing in the Lab.

How are you inculcating the innovation mindset amongst your students?

Post teaching the basic principles of tinkering. Students are encouraged to observe their surroundings and come up with problems they want to solve. These are then discussed and the children are guided to find the solutions to the problems.



LOKESH KUMAR SINGH

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School : C Lal V Pal Sarswati Vidya Mandir Inter College

ATL UID : F4569933

City : Pilibhit | **State :** Uttar Pradesh

What makes your ATL unique? (You can highlight the best practices of your ATL or any other initiatives)

We are consistently striving to enhance the effectiveness and utility of ATL through various endeavours, such as conducting late-night workshops on Sundays and holidays, making periodic visits to community schools, and organising exhibitions.

How are you inculcating the innovation mindset amongst your students?

Tasks are assigned to identify problems in the surroundings. Subsequently, providing examples of innovations that have addressed such problems serves as motivation for them to develop their own ideas.



