



TINKERFEST

2019

Choithram School, Atal Tinkering Lab
5 Manik Bagh Road, Indore, Madhya Pradesh 452014 (M.P.)
CBSE Aff. No. 1030002



"ATLs are opening doors to children from different socio-economic backgrounds, schools, NGOs, and ATLs are creating innovators."

Ramanan Ramanathan
Mission Director, Atal Innovation Mission
NITI Aayog
Govt. of India

FOREWORD

As a child, one would easily get fascinated by different professions and streams. On one occasion, when one would attend a painting summer camp during summer vacation, one would want to become an artist, on another occasion, one would want to become a scientist, after reading series of science fiction novels. I had never really thought of becoming an innovator – entrepreneur, until I was exposed to the world of design thinking and innovation during my post-graduation. However, today with Atal Tinkering Labs, children as young as 12 years of age are becoming entrepreneurs.

Tinkering in schools is now becoming a nationwide movement, and Atal Innovation Mission, NITI Aayog is pleased to launch the ATL Summer Tinkering Festival of 2018, to allow children to unleash the entrepreneur within during their summer vacation. Students are encouraged to keep their boredom aside this summer break, and prove it to their family and to the world, that they can become a Studentpreneur or a Studentmaker while being at home.

So, dear Principals, Teachers, Students, Parents and Mentors, explore the world of Atal Tinkering Lab, and empower the young minds to innovate!

Happy Tinkering this summer 😊

Dr. Ayesha Chaudhary
Atal Innovation Mission
NITI Aayog
Govt. of India

ATAL TINKERING LAB, CHOITHRAM SCHOOL

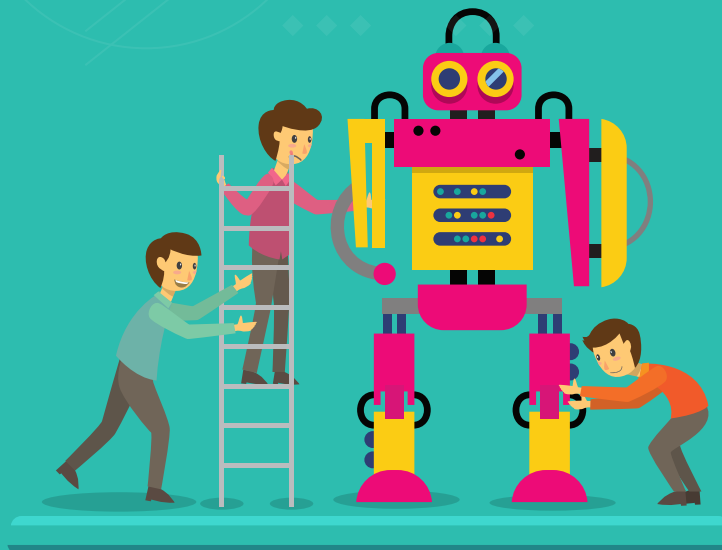
SUMMER TINKERING FESTIVAL

Tinkering in schools has become a nationwide movement and NITI Aayog is pleased to announce the **ATL Summer Tinkering Festival** in celebration of this movement.

Tinkering Festival will be celebrated in Choithram School Atal Tinkering Lab in the month of April 2019. (Dates: TBD)
This time Tinkerfest becomes even more exciting with elements of Entrepreneurship, Creativity, and Innovation; creating a conducive environment for students to Innovate.

TinkerFest will introduce school students to new skills of innovation and entrepreneurship.

Let us together unleash the innovator inside.



ATL Tinkering Festival is a series of activities for students at Choithram School to showcase their creativity during the final exhibition at the Choithram E-Summit 2019, which will be held in July 2019.

TINKERING FESTIVAL WILL BE CONDUCTED IN 2 PHASES -

Phase 1- Student Exploration @ Home

Phase 2- 10 Days TINKERFEST @ ATL

All interested students of class 6 to 12 can take part in this fest.

DATE

April 15, 2019 to April 26, 2019

VENUE

ATL, Choithram School, Manik Bagh

FOR QUERIES, CONTACT

Devansh Jain

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STUDENT EXPLORATION @ HOME



1. IamaStudentPreneur!

WHAT?

Dear Choithram Student innovators,

Grab your opportunity to become an entrepreneur. Take your ideas to the next level. Keep your boredom aside to create your own venture while being at home during summer break.



HOW?



Identify your teams, they can also be from different classes, different schools. You may include your neighbours and friends and introduce this new world of innovation.



Identify a problem existing in your community/society. Conduct a survey around your neighbourhood and list down the pain points.



Learn more about the problems you identified using sources like internet or newspapers etc.



Develop a detailed problem statement with the help of your research. Ideate and brainstorm potential solutions.



Bring your ideas to life. Create the prototype. Show it to the people who helped you in the survey.



Phase 1 Submission Guidelines

Students will submit a brief report which must include the following things:

1. Team Members (Name, Class & Section)
2. Problem Statement
3. Ideas of Product that can be developed at the ATL Lab during the tinkersfest.

Students are open to submit more than one ideas.
Reports to be submitted in printed format to
Devansh Jain, ATL In-charge on or before April 05, 2019.
30 Shortlisted Ideas will take part in the TinkerFest at ATL
Choithram School.

Voila! You are a student-preneur.



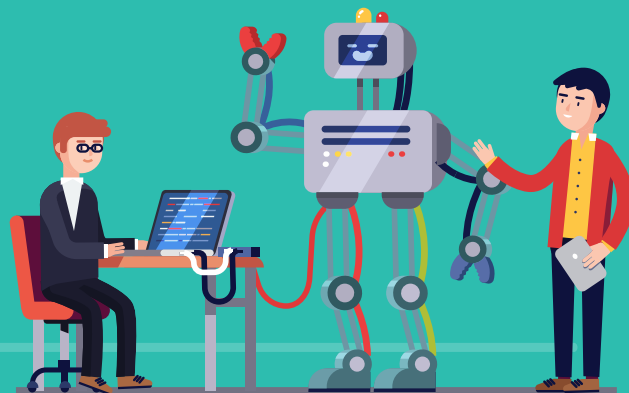
WHY?

SKILLS/ CONCEPTS LEARNT

PROBLEM
SOLVING

TEAM
SPIRIT

EFFECTIVE
PRESENTATION





TINKERFEST@ATL

Once the ideas of students have been shortlisted, Choithram School will conduct a 10 Day tinkering event in their ATL and develop products/prototypes with the following tentative agenda.

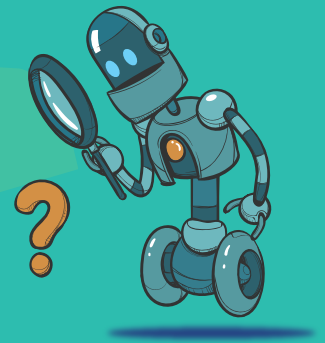
Tinkerfest agenda (First 2 Days)		
Day	Time	Activity
Day 1	9:00am to 11:00am	Idea Presentation
	10:00am to 10:30am	Feedback on Ideas
	10:30am to 12:30pm	Know your ATL*
	12:30pm to 1:30pm	Lunch & Departure
Day 2	9:00am to 12:30 pm	ATL workshop/Mentor Session: Ideation, Design Thinking, Starting to build a prototype using ATL equipment
	12:30pm to 1:30 pm	Lunch

Form the third day, students will work hands-on towards creating the prototype of their idea. Students will access the Lab Equipments through out the program.

*KNOW YOUR ATL:

Introduce students to the different equipment available in the ATL.

- Randomly pick up a piece of equipment present in the ATL.
- Now do a quick internet search about the equipment that you are holding and find out what it does.
- Write this information down on sticky notes and paste them on the cardboard in a systematic manner.
- Try and write about all the equipment present in the ATL. By the time everyone is finished, the ATL will have details about all the equipment present in it for everyone's reference.



KEY POINTERS FOR STUDENTS

- Students can work individually or preferably in teams.
- Phase 1 Submission Deadline is April 05, 2019.** Reports to be submitted in printed format to Devansh Jain, ATL In-charge.
- Shortlisted Ideas will be announced on the day of April 07, 2019
- Shortlisted Students will be given a chance to develop the product/prototype during TinkerFest at ATL Lab Choithram School Manik Bagh.



Happy Tinkering, this summer.



