

ATAL TINKERING LAB MARATHON 2019



Phase 3

Research and Ideate! Begin Your Innovation Journey

The Marathon this year is focusing on problems highlighted by all the students of India. The most frequently highlighted problems by students are the problem statements of the ATL Marathon 2019 that all our young innovators will solve for and implement within their school and community.

Themes	Sub-Themes
Enabling outcome driven Quality Education	<ul style="list-style-type: none"> I. Innovate to make classrooms more interactive and learning more experiential II. Innovate to integrate social, emotional and ethical learning in your school curriculum III. Innovate to increase engagement and involvement of community schools in Atal Tinkering Labs and inculcate a spirit of innovation IV. Innovate to improve current learning aids provided in your school (textbooks, blackboards etc.)
Ensuring Inclusivity and Equality for all	<ul style="list-style-type: none"> I. Innovate to make your school administration (admission process, fee structure etc.) & its infrastructure (especially for disabled - jan or differently-abled) more efficient and tech savvy II. Innovate to enable an inclusive school environment for all (regardless of age, sex, religion, gender, caste, status etc.) III. Innovate to enable infrastructure for inter-school connectivity across the schools of the country IV. Innovate to automate cleaning systems in schools in toilets (pots/urinals/washbasins), inside and outside classrooms and the school environment in general which can cater to a large area, a large number of students and all kinds of waste.
Enabling a sustainable Environment and Justice	<ul style="list-style-type: none"> I. Create solutions to counter the menace of bullying (physical, mental, cyber etc) faced by school students, teachers and staff II. Devise solutions to create a safe environment for girls and women III. Innovate to create an environmentally friendly school and community which is sustainable and energy efficient IV. Create solutions to resolve disparity between public and private schools
Enhancing Health and Hygiene	<ul style="list-style-type: none"> I. Innovate to improve mental and physical well-being of students, teachers, staff and/or community II. Innovate to get clean water and air in your environment III. Innovate to tackle the problem of Climate change IV. Create solutions for waste (dry, wet, sewage) management

In the next phase of the ATL Marathon, you need to **SELECT A PROBLEM STATEMENT** that you associate with from the list given above and **RESEARCH AND IDEATE** to solve it.

Note: You **do not need to actually create prototypes** or solutions to solve the problem in this phase. This phase is to only show us your understanding of the problem that you selected and think of an idea of how you want to solve the problem.

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This phase is shortlisting phase. The top entries from this round will be shortlisted for Phase 4 in which the final solution will need to be developed and implemented.

For this phase:

Research:

- No one can effectively solve without understanding the problem in depth.
- In this phase, you need to truly understand the problem by talking to your friends, teachers, neighbours, parents and community.
- Conduct a survey, jot down the answers and analyse the response.
- Write down your findings and your in-depth understanding of the problem.
- The student team that submits the most thorough and complete research and understanding of the problem will be shortlisted.

Ideation

- Now that your team has understood the problem after Step I of Research, think of ideas on how you can solve the problem using Techno Art or Science & Technology.
- Tell us your idea of how you want to solve the problem. How will you ensure that it will be used?
- You can submit a sketch or a plan for your idea.

If selected for Phase 4, you can design and implement the solution to actually become the true innovators of your school, community and the country.

Visit the website <https://innovate.mygov.in/atl-marathon-2019/> for more details. Students of classes VI-XII are invited to participate.

Contact INV-ATL teacher /trainer to get any support or clarifications. Send a mail to sangeetagulati@sanskritischool.edu.in addressed to Ms Sangeeta Gulati, ATL Incharge if you need help in submitting your plan.