

Mega Tinkering Day Celebration Report

Date: 12th August 2025

Time: 9:30 AM – 12:00 PM

School Name: PM Shri Kendriya Vidyalaya Ashok Nagar

On August 12, 2025, our school participated in the nationwide Mega Tinkering Day, organized by the Atal Innovation Mission (AIM), NITI Aayog. This event aimed to foster innovation, creativity, and problem-solving skills among students by engaging them in hands-on DIY projects. Over 10,000 Atal Tinkering Labs (ATLs) across India participated, making it the largest school-based tinkering event in the country.

The session was conducted via **Zoom** and witnessed participation from **80 enthusiastic students** from classes 6 to 9. **Two teachers and two CGI volunteers, Suganya and Sathish**, guided the students throughout the session.

Objective:

Mega Tinkering Day is celebrated every year to promote innovation and creative problem-solving among students, motivating them to design and build functional projects while learning fundamental principles of science and technology. The day provides a platform to showcase ingenuity, teamwork, and hands-on application of classroom concepts.

Activity Details

The central activity involved students constructing a DIY vacuum cleaner using everyday materials. This project not only introduced students to basic engineering concepts but also emphasized the importance of sustainability by utilizing waste materials. The session was conducted virtually, with a step-by-step guide provided to ensure all participants could follow along effectively.

Contributions and Support

Deep Mala (ATL In-Charge) & Rahul (ATL Mentor of Change): Engaged with students, offering encouragement and insights into the importance of innovation in education.

Activity Conducted:

Students actively participated in building a **mini vacuum cleaner** using the following materials:

- 9V Battery
- Propeller
- Hot Glue Gun
- 9V/12V DC Motors
- Hook Wires
- Scissors
- Cardboard Sheets
- 2L Plastic Bottle
- White Bandage
- Double-Sided Tape
- Soldering Kit
- Switch
- Incense Stick

Step-by-Step Process:

1. Students divided into **teams of 4-5 members**.
2. Materials were arranged, and AIM mentor demonstrated the **assembly of the vacuum cleaner** through zoom.
3. Each team carefully followed the steps: connecting the motor to the propeller, attaching the battery, fixing components with tape and glue, and testing the final assembly.
4. Teams collaborated, discussed ideas, and made adjustments to optimize their vacuum cleaner.
5. The volunteers provided guidance, tips, and safety instructions throughout the session.

Student Engagement:

- Students were **highly enthusiastic** and participated actively in assembling, troubleshooting, and testing their models.
- The session helped develop **problem-solving, teamwork, and practical STEM skills** among students.

Documentation:

- **Photos and videos** of the students' projects and activities were captured to document the event and showcase the students' creativity.

Mega Tinkering Day proved to be an inspiring, educational, and fun-filled experience for students, motivating them to explore innovative solutions and practical applications of scientific concepts.









