

Club project spotlights : Club Quantum Verse presents the Piezoelectricity Project, showcasing how simple pressure can create clean electrical energy. A creative blend of science, innovation, and hands-on learning.

Quantum Verse



Student Voices : "The piezoelectric handprint project was really fun! It showed how a simple press can create energy. It made science feel exciting and made us feel like real young scientists." ~Kanav Malhotra

"Teamwork made this project easy and enjoyable. By doing it hands-on, understanding piezoelectricity became clearer, and it boosted our confidence and creativity." ~Pavleen

Club Name:
Quantum Verse

Motto
Redefining Energy through chemistry

Manager
Yashika Sachdeva

Project Report and Skill Development

DEEPERDIVE

Yashika Sachdeva - 10/12/2025



Project Goals: The project explains how mechanical pressure can be converted into electrical energy using the piezoelectric effect. It builds clear understanding, supports scientific thinking, improves problem-solving, encourages teamwork, and promotes awareness about clean and renewable energy.

Process/ Steps: A handprint is drawn on cardboard, and piezoelectric sensors are fixed under it and connected to an LED. When pressure is applied on the handprint, the sensors convert it into electrical energy. This energy travels through the circuit and lights the LED showing the piezoelectric effect in action.

Skills Learned: The project gave practical experience in using sensors and making simple circuits to produce electricity. It helped build problem-solving skills, creativity, and teamwork. It also made the idea of converting pressure into electrical energy easier to understand and improved observation and thinking skills.

Challenges and solutions :

A major challenge was getting the sensors to give a proper output, as uneven pressure or wrong placement reduced the electricity produced. This was solved by adjusting the sensor positions and keeping the pressure uniform. Weak connections also caused signal loss, which was fixed by tightening the wiring. Understanding how pressure turns into electricity was tricky at first, but repeated testing made it clearer. The setup was also strengthened so the parts stayed in place during every trial.



Meet the Team :



Simran- 11B



Kanav Malhotra- 9A



Prabheya- 9A



Simerpreet Kaur- 11B



Amandeep Kaur- 9A



Pavleen Kaur - 9A

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