



DIYA ACADEMY OF LEARNING

Bringing Education and Values Together



SYNERGY

2024-25

Explore the world of STEAM

Where Ancient Wisdom Meets Modern Technology





SYNERGY 2024-25



A Journey through the STEAM Legacy of India



This year's SYNERGY exhibition unfolded like an epic storybook, chronicling the vast and diverse achievements of India in Science, Technology, Engineering, Arts, and Mathematics. The theme, "A Journey Through the STEAM Legacy of India," came alive through a series of immersive displays, meticulously crafted models, and interactive presentations – all brought to life by the creativity and hard work of our students.

Our school campus was transformed into a vibrant, museum-like gallery, with each corridor and classroom dedicated to one of seven key domains: Medicine, Communication, Architecture, Town Planning, Agriculture, Defense, and Space. Within each domain, visitors were taken on a compelling journey through the Past, the Present, and the Future, offering a holistic view of India's scientific and cultural evolution – and its exciting trajectory ahead.





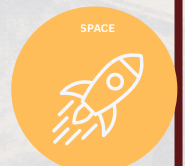
Medicine

Bridging Distances



In this section, visitors experienced the depth of India's medical heritage and its transformation into a modern science.

- **Ancient Wisdom:** Students displayed a lush corner of medicinal plants, from Neem to Tulsi - explaining their healing properties and how they remain relevant in today's herbal remedies.
- **Surgical Pioneers:** A striking highlight was the display of ancient surgical tools, recreated in detail. Here, students narrated the story of Sushruta, the legendary surgeon who described over 300 procedures, including the forehead flap method of plastic surgery.
- **Modern Immunology:** A sequence of air-dry clay models depicted how a vaccine enters the body, activates the immune system, and helps create antibodies. The clear, stage-by-stage visuals made complex science accessible to all ages.
- **Futuristic Solutions:** Students presented 3D-printed prosthetic limbs, explaining their potential to improve the lives of amputees with affordable, customized designs.





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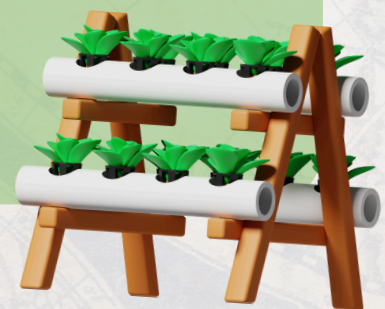
Agriculture

Sowing the Seeds of Change



From hand tools to high-tech farming, this section told the story of India's agricultural resilience and revolution.

- **Ancient Tools:** A working model of the Persian Wheel demonstrated how ancient Indian farmers lifted water for irrigation centuries ago — a feat of simple yet effective engineering.
- **Green Revolution Impact:** Exhibits featured miniature tractors, irrigation systems, and sample fertilizers to illustrate the 20th-century breakthroughs that boosted food production and reduced famine.
- **Farming of the Future:** Displays on hydroponics, vertical farming, and drone-assisted precision agriculture showcased how modern technology is transforming the way we grow food, conserve resources, and feed a growing population.





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Defense

Guardians of the Nation



A journey through the evolution of India's defense strategy – from ancient warfare to modern military prowess.

- **Warriors of the Past:** Exhibits included replicas of swords, shields, and cannons, bringing to life the military craftsmanship of ancient and medieval India.
- **Naval Pride:** A proud centerpiece was the model of INS Vikrant, India's first indigenous aircraft carrier, embodying the spirit of self-reliance in national defense.
- **Aviation and Beyond:** Fighter jet models equipped with stealth technology were explained with interactive visuals and presentations. Students described how these innovations enhance aerial combat while minimizing detection.





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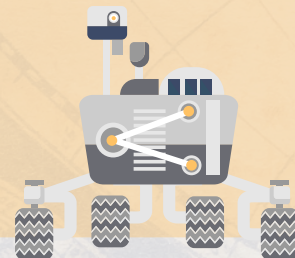
Space

From Gola Yantra to Galaxy Missions



The grand finale was a celestial showcase of India's spacefaring spirit — past, present, and future.

- **Ancient Astronomy:** Models of the Yasti Yantra, Gola Yantra, and other ancient instruments demonstrated how India's astronomers tracked celestial bodies long before telescopes existed.
- **Modern Marvels:** Pride surged as students guided visitors through intricate models of Aditya L1, Mangalyaan, Chandrayaan, and NISAR — illustrating how India carved a name in global space exploration.
- **Immersive Exploration:** A stunning hologram-based space simulation allowed visitors to soar through galaxies, planets, and satellites in 3D — a perfect blend of imagination and cutting-edge tech that left visitors spellbound.





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Cultural Programme



Performances showcased the integration of STEM concepts into art, culture, and everyday life. From electrifying dance fusions that symbolized unity in diversity to captivating live art sessions accompanied by music—including a blindfold painting challenge—students demonstrated the power of imagination and skill.

A highlight of the evening was a thought-provoking dance-drama that transported the audience through different eras, from ancient civilizations to the digital age, illustrating human progress in architecture, technology, and medicine. This performance, *Prayaam: An Ode to Progress*, emphasized the responsibility of using advancements wisely. It was a spectacular fusion of performance and storytelling, built around the powerful theme of balancing technological progress with human values. The story travelled through time – from the wisdom, simplicity, and community spirit of the past to a distant future dominated by cold, emotionless machines. It highlighted the dangers of letting technology overpower empathy, love, and human connection, while also celebrating its potential when guided by responsibility and compassion. Through vibrant dance, music, and drama, the production delivered a clear message: true progress lies not just in innovation, but in preserving the heart of humanity while shaping the world of tomorrow.

