

UNDER THE AEGIS OF SANSKAR BHARATI TRUST, BHARUCH

SMCP SANSKAR VIDYA BHAVAN

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FUTURE ZONE

In Association with



Thoughts From the Visionary



Mr. SRIJAN PAL SINGH
Advisor to Dr. A.P.J. Abdul Kalam
CEO, Kalam Centre
Founder, Homi Lab
Author, Educator, Futurist

It gives me immense pride to see that students from Bharuch are now experiencing and experimenting with the leading laboratories across the globe, right from their own campus.

The establishment of the Future Zone at SMCP Sanskar Vidya Bhavan is a testament to the visionary leadership of Sanskar Bharati Trust, whose constant endeavours are directed towards bringing world-class learning to the students' doorstep.

Today, it fills my heart with joy to see young learners, many of whom have tiny hands but tall dreams, operate the International Space Station, situated 400 kilometers above Earth, and capturing breathtaking images of our planet. Their eyes sparkle not just with curiosity, but with the confidence of having touched the frontiers of human achievement.

At Future Zone, we believe in preparing students for a future that demands innovation, creativity, and leadership. Through immersive virtual reality simulations, hands-on projects, and exposure to emerging fields like sustainability, artificial intelligence (AI) and GenAI, clean energy, and space exploration, our students are no longer passive learners — they are becoming active pioneers of tomorrow.

Our students no longer have to wait after school to shape their future, they are already active contributors, designing, experimenting and building the world of tomorrow, today.

Future Zone is not just an enhancement of the curriculum; it is the opening of a new universe of opportunities, where curiosity drives learning and dreams know no boundaries.

Congratulations to the leadership of SMCP Sanskar Vidya Bhavan for sharing this vision and to every student

who dares to imagine, explore, and lead !!!!

Welcome to the future of education at Future Zone, SMCP Sanskar Vidya Bhavan

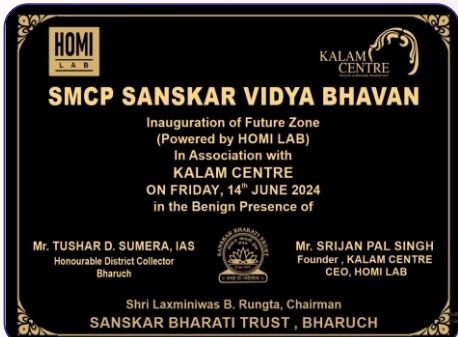
Srijan Pal Singh
Founder, Homi Lab

MARKING A MILESTONE IN EDUCATIONAL EXCELLENCE

On 14th June 2024, SMCP Sanskar Vidya Bhavan proudly inaugurated the Future Zone, making it the first in Gujarat and third in India. The event was graced by Shri Tushar Sumera, Bharuch District Collector, as the Chief Guest, and Mr. Srijan Pal Singh, Founder of Homi Lab, as the Guest of Honour.

The inauguration ceremony commenced with the lighting of the lamp by the distinguished dignitaries, including Shri Madhusudan Rungta, Managing Trustee of Sanskar Bharati Trust and revered Trustees Shri Upendra Rungta, Shri Jugal Kishor Ruia, Smt. Nirupamaben G. Amin & Shri Kamlesh Udani.

INAUGURATION IN FRAMES: PRESENCE OF EMINENT PERSONALITIES



OPENING CEREMONY OF THE TRAILBLAZING FUTURE ZONE



THE MAKING OF FUTURE ZONE : VISION TO REALITY

ARCHITECTURING THE FUTURE OF LEARNING



HUMAN SIZE GSLV INSTALLATION : LAUNCHING DREAMS IN COSMOS



Capturing Live Images of Earth with NASA (Sally Ride EarthKAM Mission)

In a remarkable collaboration with NASA, Homi Lab led EarthKAM Mission, providing students from Grades 4 to 10 with an extraordinary opportunity to capture real-time images of Earth from the International Space Station (ISS).

After undergoing two rigorous rounds of expert-led training, participating students selected specific orbit ranges and successfully photographed various regions of the globe, including Nepal, India, Japan, Brazil, Indonesia, and Namibia.

This hands-on mission offered a rare, immersive experience into the world of satellite imaging, significantly enhancing students' understanding of space science and technology. It also cultivated curiosity, critical thinking, and a global perspective—empowering the next generation of space explorers and scientists.

Sally Ride EarthKAM @ Space Camp
on the International Space Station

A NASA mission administered by
U.S. Space & Rocket Center
TELEDRONE BROWN ENGINEERING
EverywhereKAM

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950. IMAGE_438473
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Sally Ride EarthKAM Image
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Image Properties (The values below are approximations.)

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Time Taken (GMT)	2024/04/09 25:52
Orbit	3951
Lens (mm)	50.00
Frame Width (km)	192.70
Frame Height (km)	127.77
Nadir	17.87° S, 19.70° E
Center	17.87° S, 19.70° E
Location	Namibia, Africa

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Sally Ride EarthKAM @ Space Camp
on the International Space Station

A NASA mission administered by
U.S. Space & Rocket Center
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Time Taken (GMT)	2024/09/00 32:30
Orbit	4023
Lens (mm)	180.00
Frame Width (km)	56.31
Frame Height (km)	37.63
Nadir	27.13° N, 87.05° E
Center	27.13° N, 87.05° E
Location	Nepal, Asia

Anugrah Sharma
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Sally Ride EarthKAM @ Space Camp
on the International Space Station

A NASA mission administered by
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IMAGE_441950

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Image Properties (The values below are approximations.)

Photo ID	441950
School	aslomski-smoc, prekhasehia-smoc
Time Taken (GMT)	2024/08/01 23:37
Orbit	4008
Lens (mm)	180.00
Frame Width (km)	56.68
Frame Height (km)	37.81
Nadir	0.11° N, 102.17° E
Center	0.11° N, 102.17° E
Location	Indonesia, Asia

Loriya Amale
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Sally Ride EarthKAM @ Space Camp
on the International Space Station

A NASA mission administered by
U.S. Space & Rocket Center
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Sally Ride EarthKAM Image
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November 2024 Mission

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Image Properties (The values below are approximations.)

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Time Taken (GMT)	2024/06/02 57:39
Orbit	3978
Lens (mm)	180.00
Frame Width (km)	56.39
Frame Height (km)	37.62
Nadir	24.07° N, 71.19° E
Center	24.07° N, 71.19° E
Location	India, Asia

Vedant Mistry
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FUTURE ZONE- CELEBRATING THE POWER OF SCIENCE

SHIKSHA
SAPTAH



INTERNATIONAL DAY OF
HUMAN SPACE FLIGHT



INTERNATIONAL
SCIENCE DAY



INTERNATIONAL
MARS DAY



STUDENTS SHINE AT NATIONAL SCIENCE DAY CELEBRATION IN PHYSICAL RESEARCH LABORATORY (PRL), AHMEDABAD

Five students from SMCP Sanskar Vidya Bhavan were among 168 selected out of 1,223 participants across Gujarat to participate in Physical Research Laboratory (PRL) Ahmedabad's National Science Day Celebration. The students were mentored by Mr. Srijan Pal Singh (Founder, Homi Lab), Ms. Preksha Sethia (Astrophysicist), Er. Kulwant Marwal (Campus Director), Mrs. Jayashree Kadam (PGT Physics) & Ms. Devanshi Thakor (Future Zone Instructor).

On Prestigious National Science Day celebration at PRL, Ahmedabad ,Kahan Ramani won First Prize in Extempore Speech and was declared Centre Topper. Devanshi Satani secured First Prize in the Science Quiz and Nishtha Kher was awarded for her creativity in the Sci-toon Competition.



FUTURE ZONE CELESTIAL MISSION

On 21st January 2025, Future zone in collaboration with Homi Lab hosted a mesmerizing Telescope Night Session for students of Standards 6 to 9, turning an ordinary evening into an extraordinary exploration of the night sky.

The session began with an engaging live lecture on “Measuring Distance in Space,” where students were introduced to the radar and parallax methods—key techniques used by astronomers to determine distances between celestial objects.

Under the expert guidance of facilitators, students had the thrilling opportunity to observe celestial bodies through high-powered telescopes.

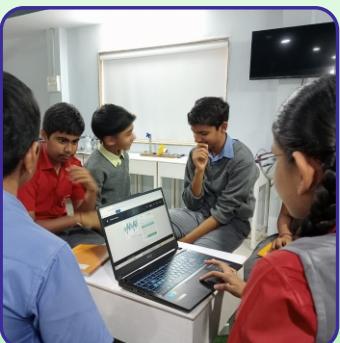
To enhance their learning experience, students also explored the Stellarium app – Star Map, which allowed them to locate and identify stars, constellations, and planets, deepening their understanding and appreciation of astronomy.



PULSAR QUEST: YOUNG MINDS MAP THE UNIVERSE

Students from Standards 6 to 10 explore the fascinating world of pulsar stars, learning about their formation, unique characteristics, and scientific importance. Guided by the teachers and Homi Lab Incharge, students register on Zooniverse.org to join a real-world research initiative.

Using graphical data and pattern recognition techniques, students actively classify pulsar signals. Through this hands-on experience, Future Zone students successfully classify 938 graphs, directly contributing to the global effort in discovering new pulsars and gaining valuable insight into astronomical research.



TRANSFORMING MINDS: A GLIMPSE INTO FUTURISTIC EDUCATION

FUTURISTIC ONLINE MODULES

Students learn through engaging video modules led by Mr. Srijan Pal Singh, covering topics like Mars Architecture, Making of an Astronaut, Moon Walker, Telescope, Fusion Energy, Artificial Intelligence, and Black Hole Explorer. These expert-designed sessions simplify complex space concepts, making futuristic science exciting and accessible.



LEARNING WITH VIRTUAL REALITY

Students engage in daily interactive classes enriched with Virtual Reality (VR) experiences. Students explore iconic space missions like Chandrayaan, Gaganyaan, Aditya L1, MOM, and Apollo 11, along with critical concepts such as space debris and Ohm's Law. These immersive VR simulations make complex ideas easy to understand and learning truly exciting.



INTERACTIVE ONLINE WORKSHOPS

Hands-on exposure to real-world scientific research. Programs like Sunspot Detectives, Ghana Pheno Pulse, Pulsar Identification Workshop etc. allow students to explore topics from plant growth to space science.



FUTURE ZONE CHRONICLES

BE AN ASTRONAUT ACTIVITY

Students work in teams to define the objectives of a futuristic space mission. Each student takes on a specific role, such as astronaut, engineer, or scientist, to explore the complexities of space exploration. As part of the mission, students discuss key observations they make, including celestial phenomena and locations visited, while also identifying the essential tools and technologies necessary for their mission's success.

The activity culminates in a creative challenge where students create a space-themed selfie, allowing them to express their understanding and experience through visual storytelling. This activity encourages teamwork, critical thinking, and imaginative exploration, inspiring the next generation of space explorers.



FUTURE FUEL DEBATE

In Future Fuel Debate students engage in a thought-provoking discussion on the topic: "Hydrogen Fuel Will Replace Petrol and Diesel in the Future." During this activity, students take on the roles of debate participants, researching and presenting arguments for and against the use of hydrogen fuel as a sustainable alternative to traditional fossil fuels. Through critical thinking and in-depth research, they explore the potential of hydrogen fuel in shaping the future of energy and the environment.

This debate encourages students to examine the role of renewable energy in addressing climate change, fostering a deep understanding of energy systems and their impact on the planet's future.



TELESCOPE QUIZ

Students participate in an engaging Telescope Quiz activity to test their understanding of telescope concepts, including the types of lenses and their applications. This interactive quiz reinforces key learnings and strengthens their grasp of optical science in a fun and competitive way.



CATALYST – THE FUTURE EXHIBITION: IGNITING YOUNG MINDS

On 1st October 2024, SMCP Sanskar Vidya Bhavan, with Homi Lab, hosted CATALYST – THE FUTURE EXHIBITION, a grand occasion that brought together 120 students from 60 schools. The exhibition was divided into two major categories—**Society for Future** and **Education for Future**—where participants showcased innovative ideas across various domains such as Artificial Intelligence, Robotics, Sustainable Energy and more. The event was honored by the presence of several esteemed dignitaries, including Mr. Ashok Barot (Chairman, Nagar Palika School Board, Bharuch), Shri Dharmesh Mistry (Chairman, Standing Committee, Jilla Panchayat, Bharuch), Ms. Gunja Kapoor (Head of Operations, Homi Lab.), Shri Dharmendrasinh Mahida (Eminent social worker) and Shri Jugal Kishore Ruia (Trustee, Sanskar Bharati Trust). Their inspiring presence and words of encouragement added immense value to the event and motivated the students deeply.

The projects were meticulously evaluated by an esteemed panel of judges, which included Dr. Nirali Gondaliya and Ms. Palak Trivedi (Professors at SVMIT), Mrs. Ullashben Modi and Shri Prabhubhai Patel (National Award-Winners) Mr. Mayank Thakkar and Mr. Naitik R. Patel from Narmadanagar Community Science Center and Dr. Shanker Rao and Dr. G.C. Sharma (Retired Professors from Narmada College). Their expertise and thoughtful assessments ensured a fair and enriching evaluation of the students' futuristic projects.

After a day filled with creativity, innovation, and futuristic thinking, the winners were announced. Bal Bharati Public School, Jhanor, Queen of Angels' Convent Higher Secondary School and SMCP Sanskar Vidya Bhavan emerged as the top contenders, showcasing remarkable vision, creativity, and scientific understanding.

CATALYST – THE FUTURE EXHIBITION proved to be an exceptional platform for young minds to express their ideas and take confident steps toward shaping the future of science and technology.



EXPLORING THE PHASES OF MOON

Students engage in an interactive activity to observe and understand the changing appearance of the Moon over time. By modeling the lunar cycle, they explore how different phases occur due to the Moon's position relative to Earth and the Sun, building a strong foundation in celestial science.



EVOLUTION OF COOKING : FROM FIRE TO SMART KITCHENS

Students delve into the Evolution of Cooking Methods, tracing the journey from age-old traditions to modern culinary technologies. Through comparisons of past and present techniques, they discover how innovation has revolutionized cooking, enhancing both efficiency and convenience in daily life.



FUTURISTIC SCIENCE QUIZ

Students participate in the Futuristic Science Quiz, testing their knowledge of scientific concepts, space technology, and innovations shaping tomorrow's world. The quiz encourages curiosity, critical thinking, and a deeper interest in the science of the future.



OTHER SCHOOLS' VISIT TO FUTURE ZONE

Students from various schools across Gujarat visited Future Zone to experience its innovative and immersive approach to science and technology education. During their visit, they were introduced to the visionary goals of the Lab, explored Virtual Reality simulations of space missions and actively participated in hands-on, interactive activities. These experiences not only sparked curiosity but also deepened their passion for space science, innovation and future technologies.

JB & KARP VIDYA SANKUL
SURAT



BAL BHARTI PUBLIC SCHOOL
JAHOR



RMPS INT.SCHOOL
ANKLESHWAR



C K G SCHOOL
GOVALI



AMICUS INTERNATIONAL SCHOOL
LUWARA



SARVANAMAN VIDYA MANDIR
ZADESHWAR



SATYAM COLLEGE OF EDUCATION
BHARUCH



RUNGTA VIDYA BHAVAN
BHARUCH



HONOURABLE DIGNITARIES AT FUTURE ZONE

Future Zone had the honour of welcoming esteemed dignitaries who explored its futuristic learning environment and innovative approach to Science education. The dignitaries experienced Virtual Reality modules and appreciated the Lab's efforts in nurturing scientific curiosity and space exploration among young minds. Their presence motivated the learners and added immense value to the initiative



Padma Shri K.Y. Venkatesh
Indian Para Athlete



Major General Dr. Rajan Kochhar
Vishist Seva Medal, TEDx Speaker



Shri Tushar Sumera
Collector & DM, Bharuch



Mr. H. V. Joshi
Add. District Judge, Bharuch



Mrs Tanuja Tailor
Principal SGM Shiroiya English School, Navsari



Mrs Kaveri Uniyal
Principal Green Valley School, Vadodara



Engineers
PWD, Bharuch



SOCIAL ACTIVISTS
Red Brigade, Lucknow

