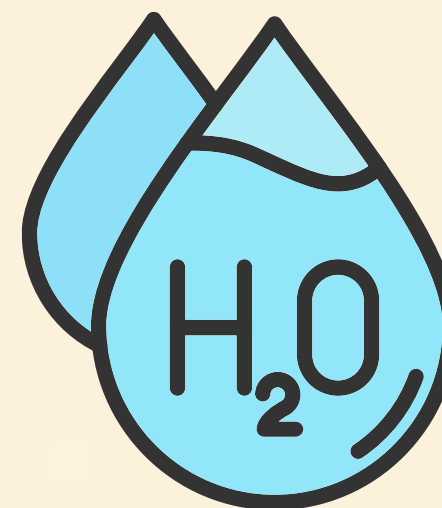
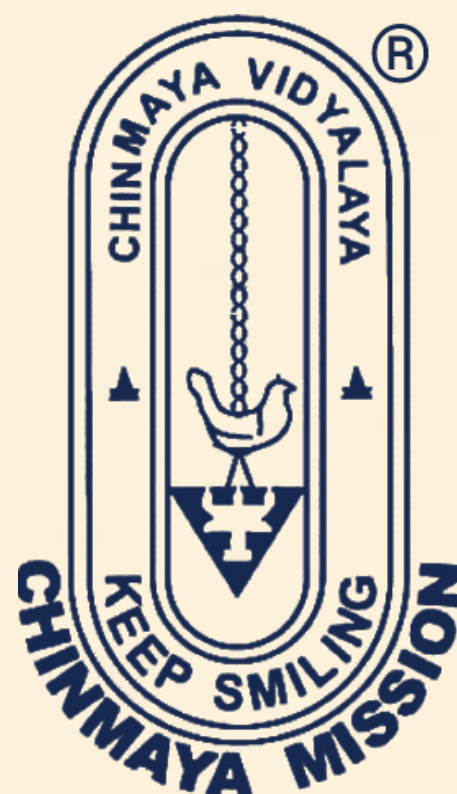
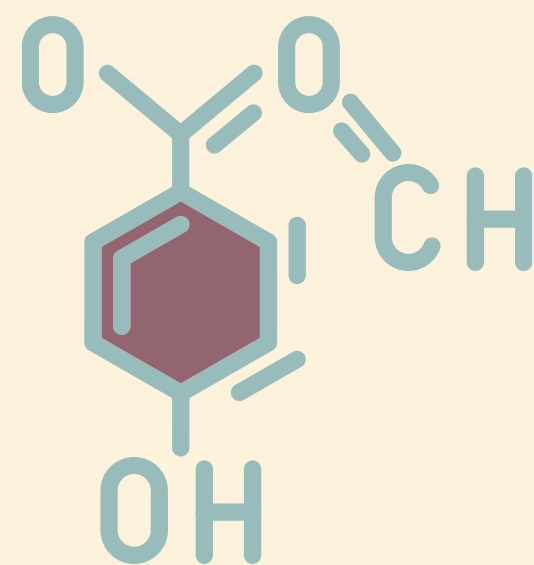
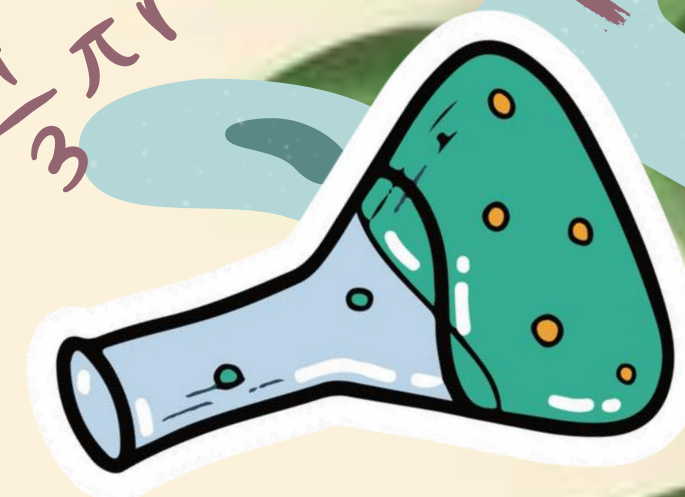


$$E_k = \frac{1}{2}mv^2$$

SCIENCE E-NEWSLETTER AGGLOMERATION



$$V = \frac{4}{3}\pi r^3$$



2025-26

CHINMAYA VIDYALAYA NEW DELHI

School with a difference

FROM THE PRINCIPAL'S DESK

Dear Students and Parents,

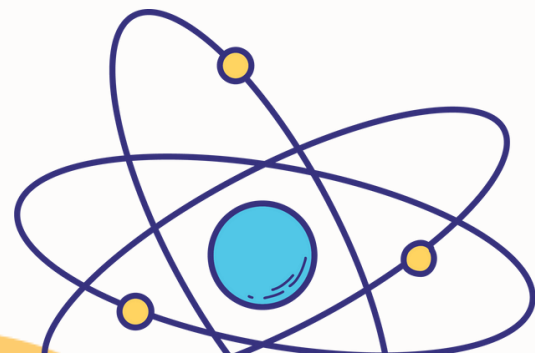
It gives me immense joy to witness the continued growth and vibrancy of our Science Department through Agglomeration, our very own Science E Newsletter. Each edition reflects the dedication, creativity, and passion with which the department nurtures curiosity and innovation amongst our learners.

Science, at its core, teaches us values that go far beyond equations and experiments—it teaches us perseverance, problem-solving, and the importance of questioning the world around us. These are the very qualities that shape responsible, forward-thinking individuals who will contribute meaningfully to society.

As we celebrate the achievements showcased in this edition, I urge our students to continue embracing the spirit of exploration and inquiry. Remember, every question you ask brings you closer to understanding not only the world but also the limitless potential within yourselves.

Congratulations once again to the Science Department for their outstanding work. May Agglomeration continue to inspire and ignite the spark of curiosity in every reader.

With best wishes,
Archana Soni
Principal



EDITORIAL

DEAR READERS,

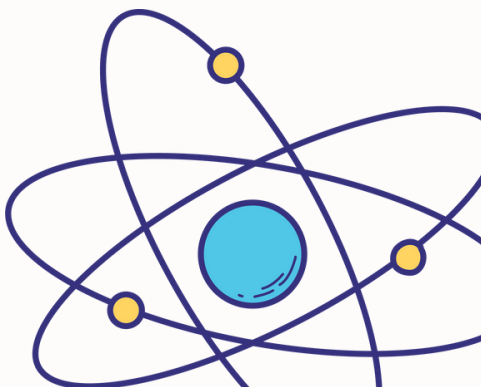
Welcome to the latest edition of our Science Newsletter , Agglomeration — a celebration of curiosity, discovery, and innovation. Science is not just confined to textbooks and laboratories; it is a way of thinking, a method of questioning, and a path to understanding the world around us.

This month, we've witnessed our students engaging in a variety of hands-on experiments, science model exhibitions, and real-world problem-solving activities. From understanding the mysteries of the atom to exploring the eco-friendly innovations of tomorrow, the enthusiasm and creativity displayed by young minds continue to inspire us.

As we continue to nurture a scientific temper among learners, let us remember what Albert Einstein once said: "The important thing is not to stop questioning." May this newsletter ignite new questions, spark fresh ideas, and encourage each of you to look at the world with wonder and curiosity.

Happy Exploring!

Deepika Singh
Head of Science Department



THE LAUREL LOUNGE

Parth Nayyar of Class X and Panav Baranwal of Class XII secured the Third Position in the BGMI category of TechFest (HAYWIRE 8.0), organized by Mount Carmel School, Dwarka, on 17th July 2025.

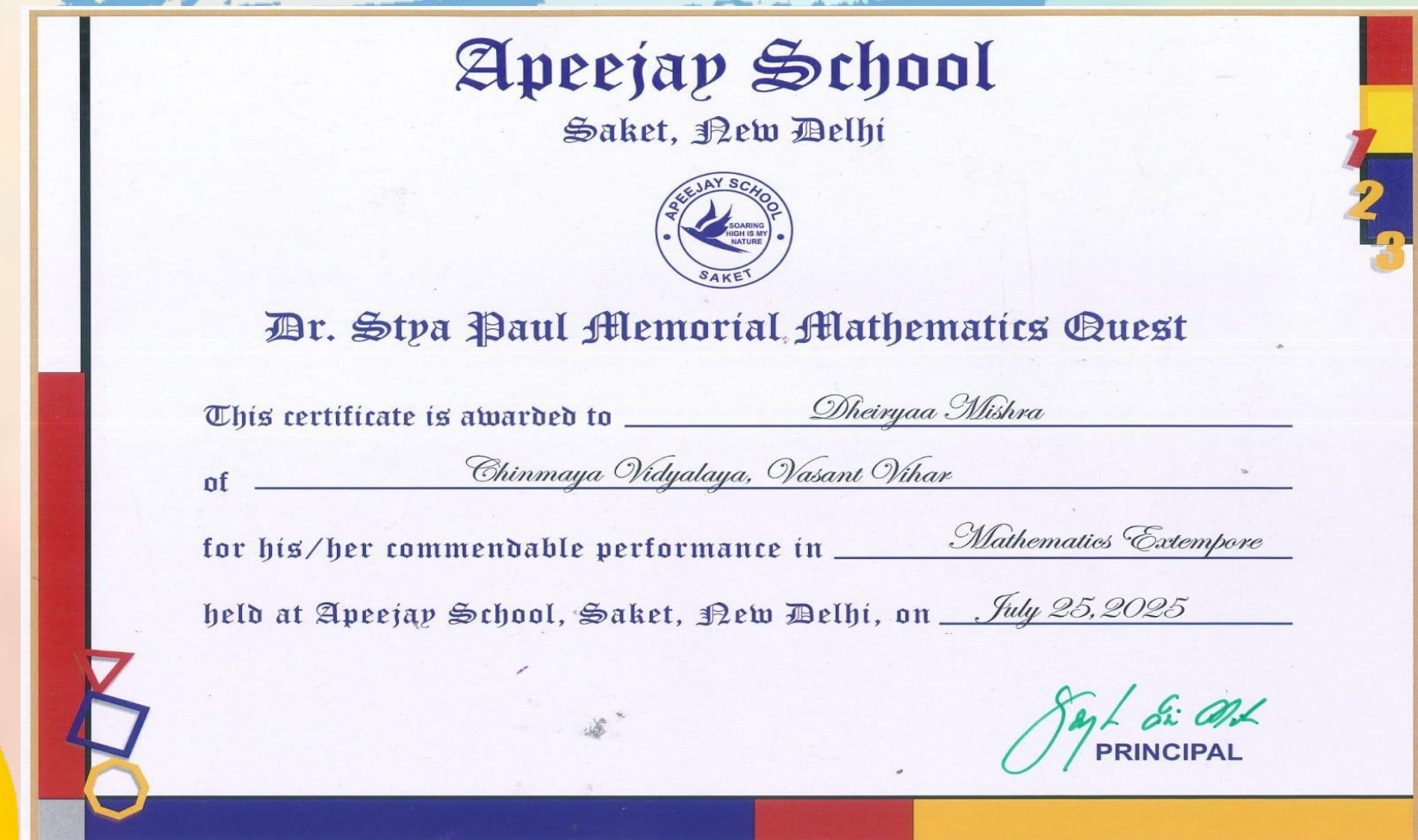


Dheiryaa Mishra of Class XI received the Appreciation Award in the Mathematics Extempore event at Dr. Satya Paul Memorial Quest 2025, organized by Apeejay School, Saket, on 25th July 2025.

Daksh Jamwal of Class XII secured a Gold Medal in the Shooting event organized by CBSE on 23rd July 2025.



Kunal Sehrawat of Class XII secured the Bronze Medal in the 80+ Boxing category at the event organized by CBSE on 24th July 2025.

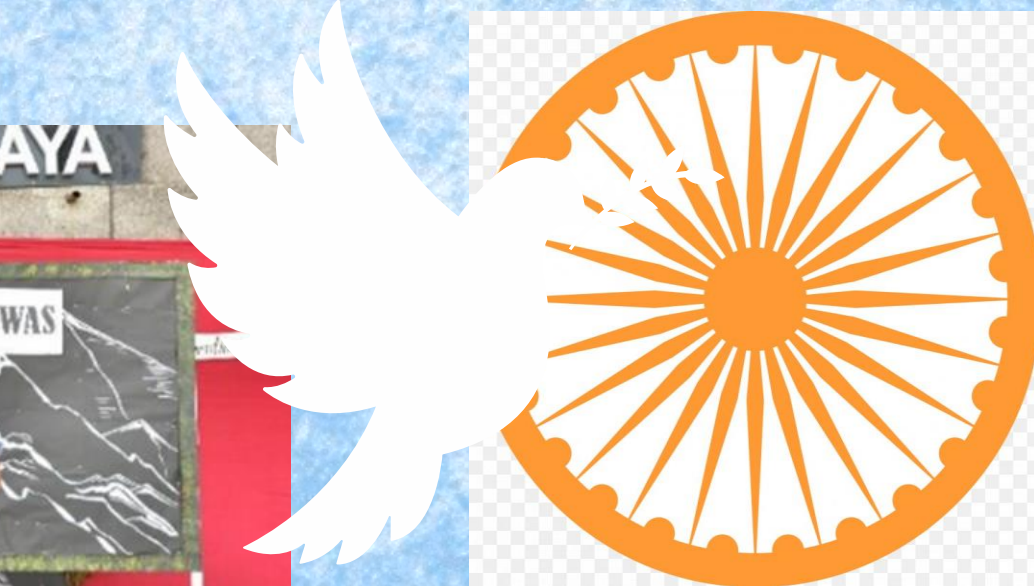


MONTHLY BUZZ

SAMVIDHAN HATYA DIVAS

Commemorating the Emergency of 1975

The initiative aimed to instill awareness among students about the significance of the Indian Constitution and the core democratic values it upholds.



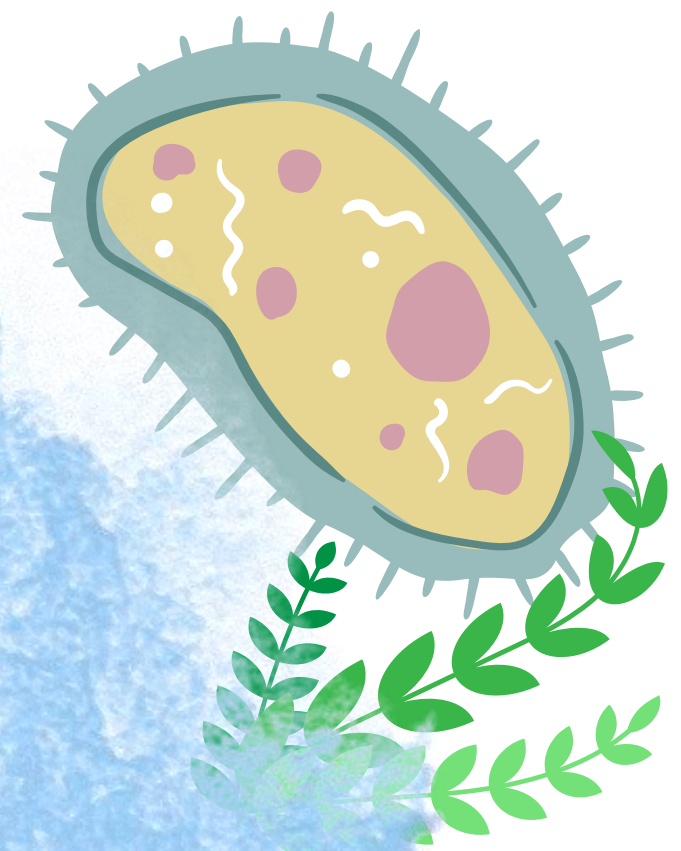
SKILLS- CODING

SESSION- CLASS VI



MULTIMEDIA AND CYBER SAFETY

- Session on How to Create Infographics in Canva
- Session on How to Create Posters Using Adobe Express



SPECIAL ASSEMBLY FOR THE INTRODUCTION OF MANODRISHTI (SCHOOL'S MENTAL HEALTH SOCIETY)



The event began with a thought of the day on mental health. ManoDrishti members then performed a skit, *"You Are Not Alone"*, highlighting student emotional struggles. This was followed by musical acts – *"Main Hoon Na"* and *"Count on Me"* – promoting support and unity.

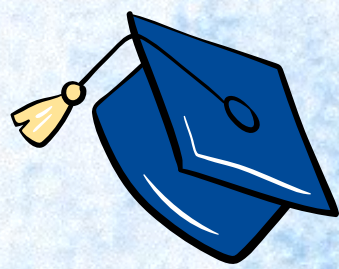
The school counsellor shared ManoDrishti's vision, and Principal Ma'am appreciated the initiative, urging students to care for their emotional well-being and emotional resilience.

INTER HOUSE COMPETITION-BEYOND THE LAB



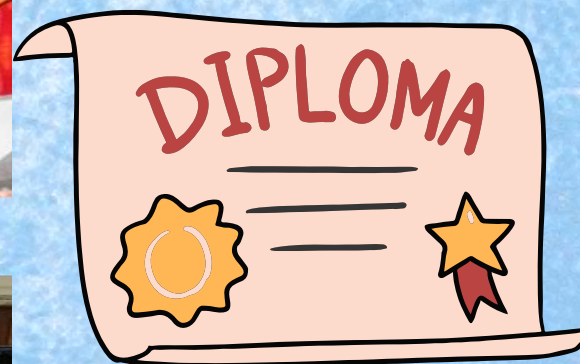
Students from all four houses—**Freedom**, **Honesty**, **Sincerity**, and **Friendship**—performed skits showcasing scientists and their discoveries, creatively bringing their stories and contributions to life.

CAREER FAIR



DESIGN THINKING-CLASS VIII (SKILL SESSION 2)

The Vidyalaya, in collaboration with Vidya Mandir Classes, organised a Career Fair for learners of Classes X, XI and XII. Esteemed institutions such as Bennett University (Times of India Group), Anglo Eastern Maritime Merchant Navy Academy, IILM University, the World University of Design and many others, participated in the event. They conducted introductory sessions and one-on-one interactions to inform students about a wide range of career opportunities.



- In the class, the concept of design thinking and its key steps were revisited. This was followed by an engaging discussion on a case study to explore its practical application.
- The case study focused on redesigning the patient experience at Kaiser Permanente, where design thinking was effectively used to address the challenge.
- The session was interactive and thought-provoking. By applying design thinking methodologies, Kaiser Permanente aimed to streamline the problem of nurse shift change, minimize potential errors and ultimately elevate the standard of patient care.



HAPPINESS CURRICULUM ACTIVITY

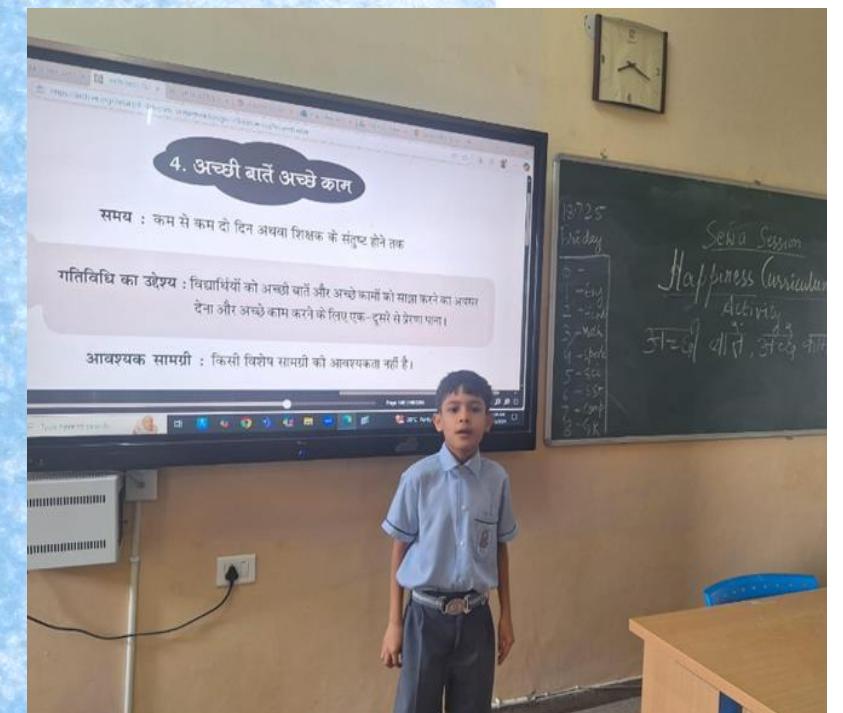
THE TWO SIDES OF NEED



An interactive session was conducted with the children where they actively participated in a discussion on material needs and emotional needs.

ACHHI BATEIN, ACHHE KAAM

The teacher began the **ACHHI BATEIN, ACHHE KAAM** session by explaining that its purpose was to encourage students to share and reflect on good deeds and kind actions. The classroom was set up into four stations, each focusing on a specific theme—**good deeds for self, good deeds for family, good deeds for society, and good deeds for nature.** Students visited each station, exchanged ideas, and discussed meaningful ways to practice kindness in different aspects of life.



DESH KI JHANKIYAN – A KALEIDOSCOPE OF CULTURE

The school came alive with the vibrant colors and rich heritage of India as classes IV to VI presented a spectacular celebration of our nation's diverse culture. The event, aptly titled "Desh ki Jhankiyaan," was a kaleidoscope of traditions, customs, and art forms from across the country.



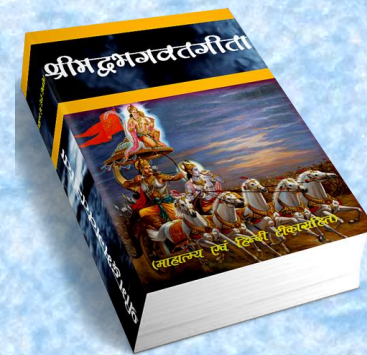
DROP AND READ

SCHOLASTIC WORKSHOP ON-'HOW TO GET PUBLISHED?' & BOOK FAIR



29TH INTER-SCHOOL GEETA CHANTING COMPETITION

Chinmaya Vidyalaya, Delhi, hosted the 29th Inter-School Geeta Chanting Competition on 30th-31st July 2025 with 600+ students from 48 schools chanting Chapter 15 of the Geeta.

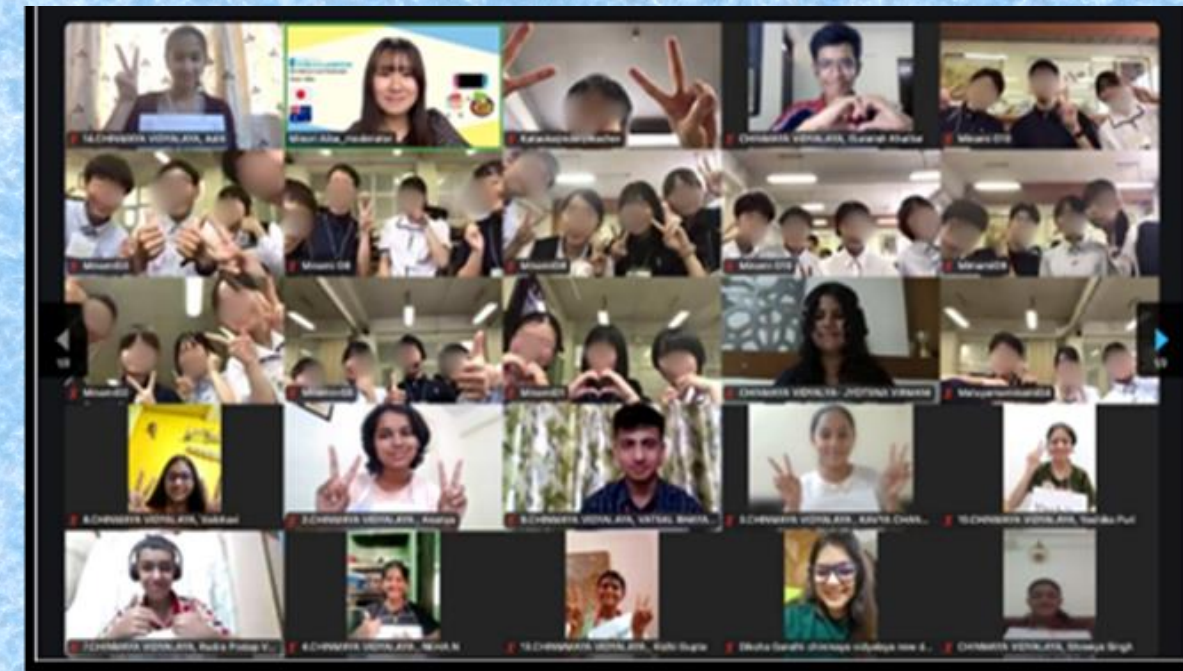


WORKSHOP: "TECHRADAR – SENSING THE FUTURE"



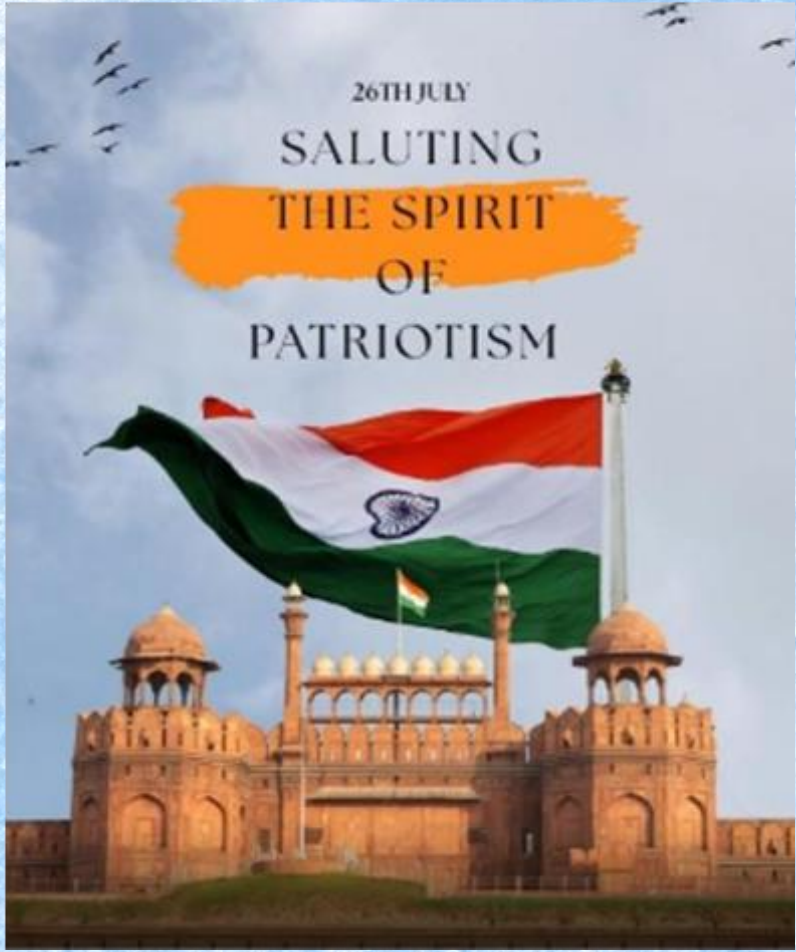
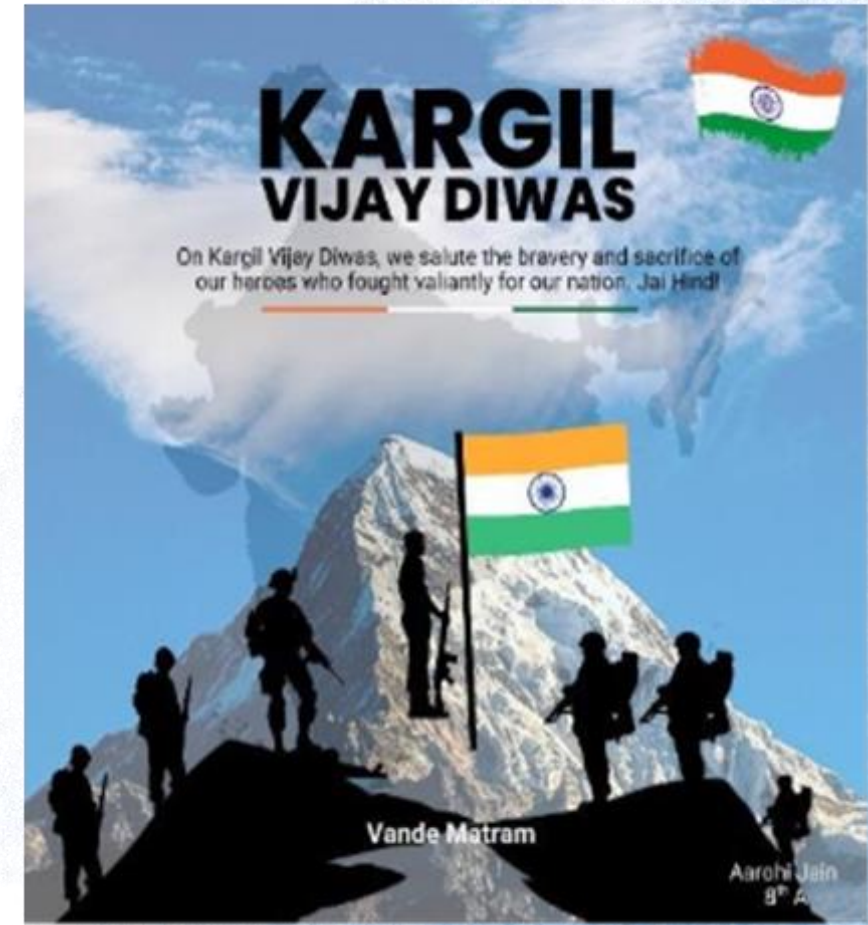
Students of Class 8 participated in a hands-on workshop on Arduino coding and circuit design. They created a radar prototype using an ultrasonic sensor and LED with Arduino, learning how to detect object distance and visualize proximity through blinking LEDs. The session sparked curiosity in real-world tech applications.

JAPAN VIRTUAL CONFERENCE – SUMMER VACATION PROGRAM IN COLLABORATION WITH WORLD CLASSROOM : IX-XI



Seventeen meritorious students from Classes IX to XI of Chinmaya Vidyalaya, Vasant Vihar, were bestowed with the esteemed opportunity to participate in the prestigious Japan Summer Vacation Exchange Program, orchestrated under the aegis of the Japan Embassy's World Classroom initiative wherein ideas on culture and traditions were shared.

DIGITAL POSTER MAKING ACTIVITY: CLASS VIII



To commemorate Kargil Vijay Diwas, the students created digital posters on the theme “Saluting the Spirit of Patriotism” using tools such as Canva and Adobe Spark, then shared their designs with their class teachers. This activity fostered both creativity and national pride while promoting the responsible use of digital platforms.



Enriching Session with Swami Avyayanandaji



Enriching Session with Swami Avyayanandaji on the Topic – **Navigating through Relationships.**



ESSAY WRITING ON 'THE SIGNIFICANCE OF CLEAN YAMUNA' - CLASS VI

To instill environmental awareness and a sense of responsibility in young minds, an Essay Writing Activity on the theme "Significance of Clean Yamuna" was organized for the students of Class VI.



WORKSHOP ON AI IN EDUCATION

A hands-on Adobe Express Workshop was conducted by the Adobe Corporation for students of Classes VI to VIII on 22nd and 23rd July 2025. The workshop aimed at enhancing students' digital skills and creativity through guided instruction and live demonstrations.



WORKSHOP

TREE PLANTATION DRIVE



A Tree Plantation Drive was organized within the school premises, involving enthusiastic participation from students of Classes VI to XII.

ENGLISH WEEK

English Week, from 14 July- 19 July 2025, at Chinmaya Vidyalaya, New Delhi was a vibrant celebration that aimed at nurturing students' love for language, literature, and creative expression.

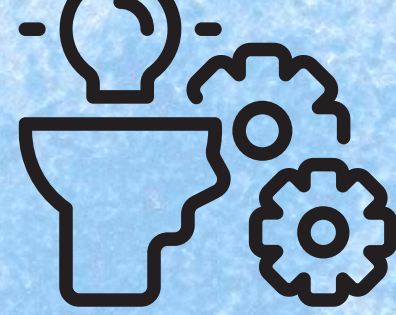
PROJECT DOLPHIN CONSERVATION



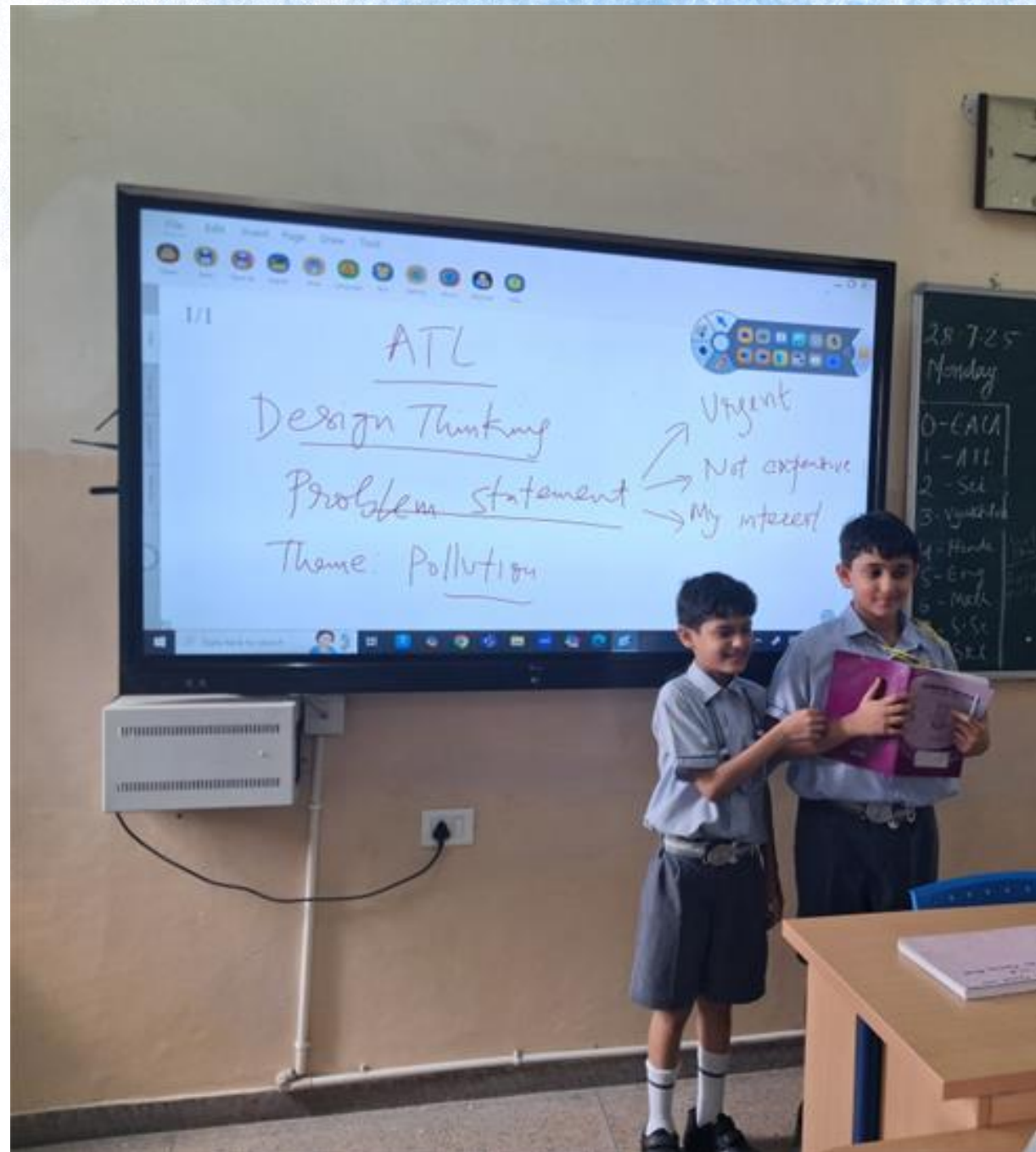
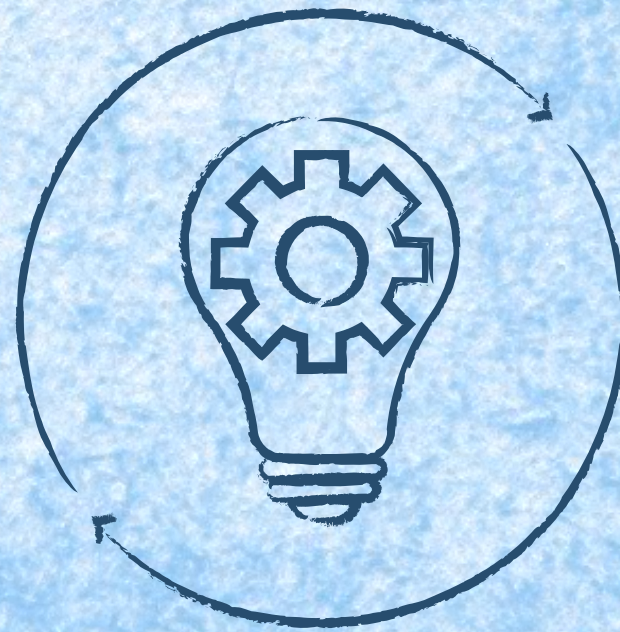
Protect Dolphin
All the students took a pledge to protect the Gangetic Dolphin



THE PROBLEM SPOTLIGHT



Learners explored multiple problems under a theme and analyzed them through the lens of urgency, interest, and cost to identify the most impactful one.



"SENSOR SYNERGY"

Showcasing the power of ultrasonic and IR sensors through student-driven innovation.

Students built and showcased sensor-based robots, including an Obstacle Avider Bot and a Hand Follower Bot, using ultrasonic and IR technology. These innovative projects were displayed at the Robotics Club and Science Exhibition, highlighting hands-on learning and creative problem-solving.



SCIENTIFIC SOJOURNS



Chinmaya Vidyalyaya celebrated Science Week from July 21-25, 2025. The Science Week was a grand success in nurturing young minds and reinforcing the joy of learning science. The collaborative model of seniors guiding juniors fostered a healthy academic environment aligned with holistic educational values

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$






$$ax^2 + bx + c = 0$$



CHALLENGE THE SCIENTIST IN YOU!!

(1)  Scan the QR Code to Dive into the World of Science & Technology!
 Challenge your brain with a fun, interactive quiz and discover how tech-savvy you really are!



(2)  Mission: Crack the Science Code!
Can you decode the secrets of science hidden in this crossword?  
 Sharpen your mind, connect the clues, and be the Science Sleuth you were born to be!
 Grab your pen. The quest for knowledge begins now...

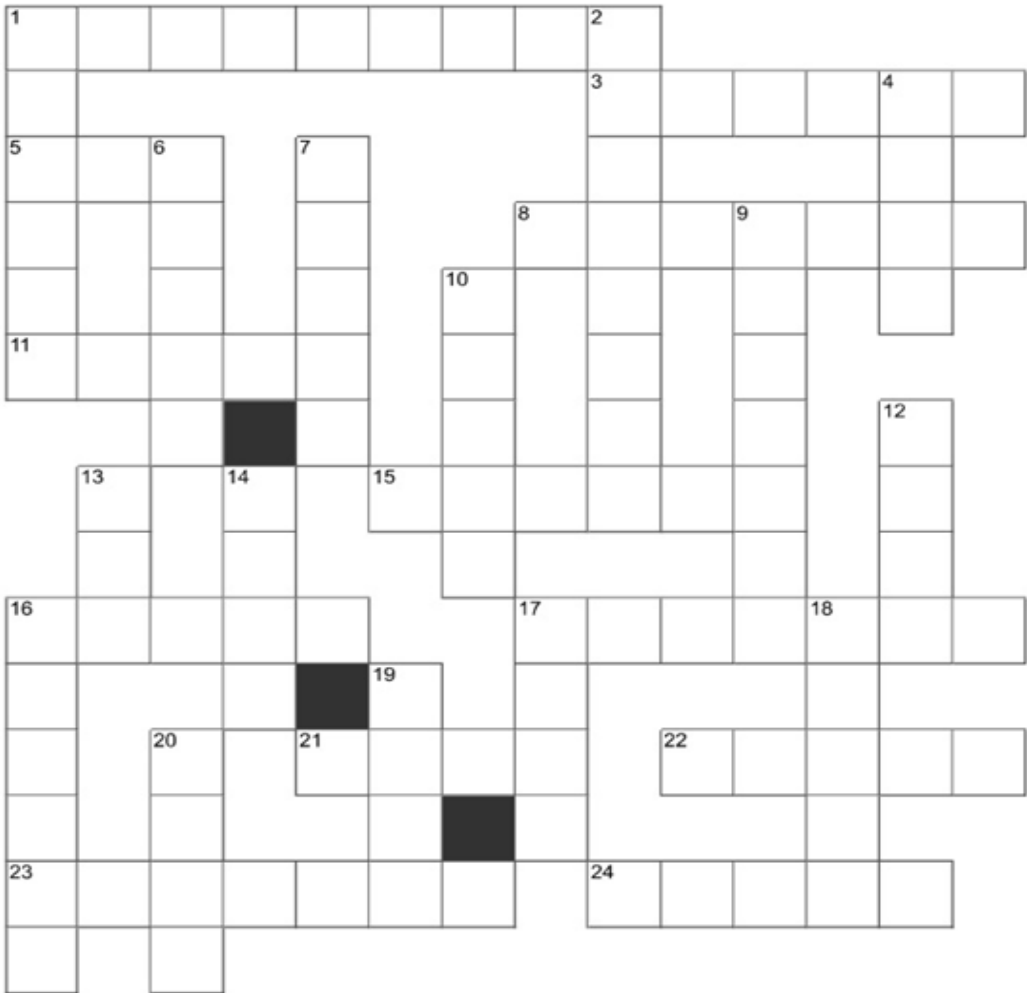
ELECTRICITY

ACROSS


- 1 Produces electricity
- 3 Ability to do work
- 5 Resistance unit
- 8 Path for current
- 11 Semiconductor device
- 15 What batteries hold
- 16 Electrical discharge
- 17 Electrical potential
- 21 Wound wire
- 22 Unpleasant electrical experience
- 23 Negative electrode
- 24 Rate of doing work


DOWN


- 1 Safety connection
- 2 Limits current flow
- 4 Power network
- 6 Converts electricity to motion
- 7 Measures usage
- 9 Flow of electrons
- 10 Bulb output
- 12 Outlet connector
- 13 Unit of current
- 14 Metal conductor
- 16 Turns lights on
- 17 Electrical pressure unit
- 18 Positive electrode
- 19 Appliance connector
- 20 Power unit



(3)  Step into the Future of Learning!

 Scan the QR Codes to Enter a World of Live Science & Tech Simulations

 Don't just read science—experience it in motion!

 Get ready to think, interact, and innovate like never before!

(i) Electric Circuit (ii) Rutherford exp. (iii) Wave interference



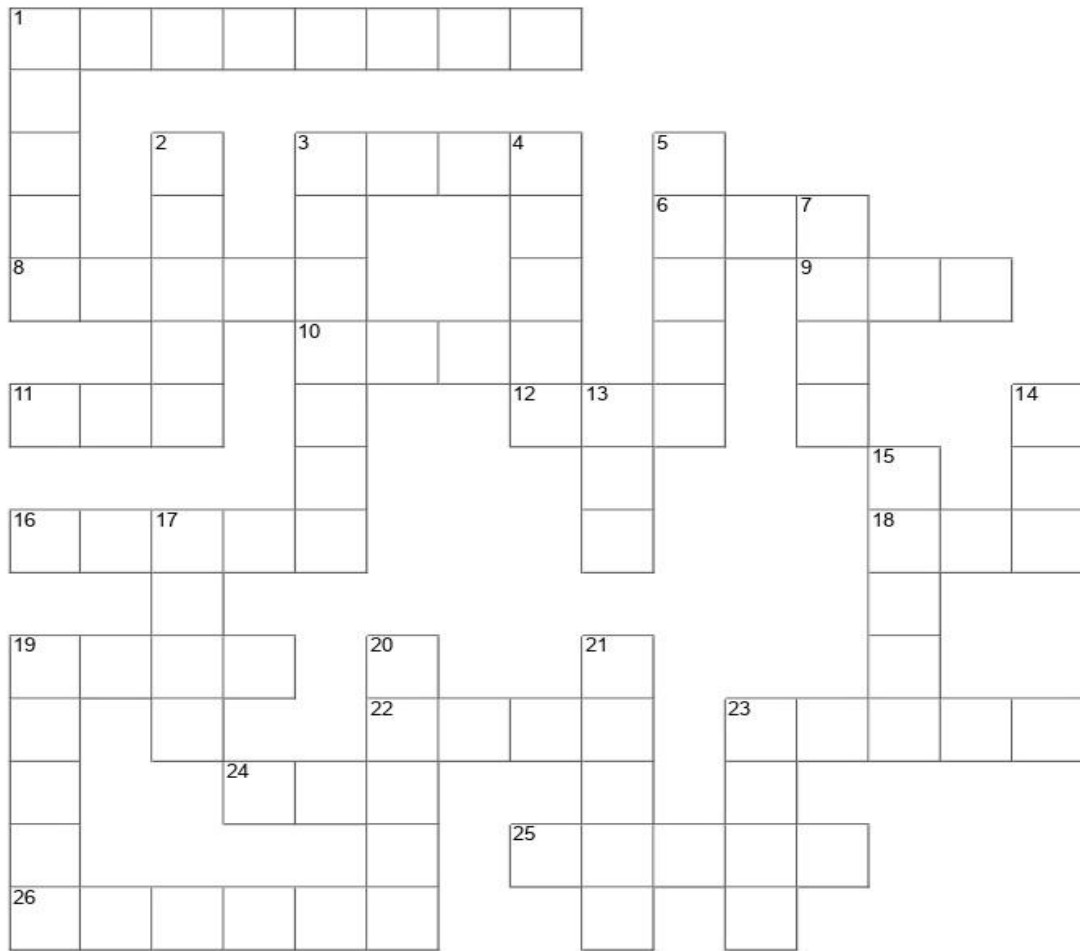
SCIENCE AND TECHNOLOGY

ACROSS

- 1 Network connection
- 3 Integrated circuit
- 6 Energy-efficient light
- 8 System for detecting distant objects
- 9 Mobile software
- 10 Programming instructions
- 11 Computer's short-term memory
- 12 Screen display tech
- 16 Automated machine
- 18 Unit of electrical resistance
- 19 Unit of power
- 22 Step-by-step procedure for calculations
- 23 Malicious software
- 24 Navigation system
- 25 Unit of magnetic field strength
- 26 Device that detects changes

DOWN

- 1 Once thought to be a medium for light
- 2 Connects to the internet
- 3 Path for electrical current
- 4 Smallest element of an image
- 5 Remote data storage
- 7 Information processed by a computer
- 13 Computer's brain
- 14 Computer's permanent memory
- 15 Energy from the sun
- 17 Unit of digital information
- 19 Electrical conductors
- 20 Device used in barcode scanners
- 21 Dynamite inventor's prize
- 23 Electrical potential unit



FASCINATING SCIENCE & TECH FACTS

Ø YOUR BODY GLOWS!

Humans emit a tiny amount of light—bioluminescence—but it's 1,000 times weaker than the human eye can detect.



Ø DNA STORAGE IS REAL!

Scientists can now store digital data in DNA strands—one gram of DNA can store 215 petabytes (215 million GB) of data!



Ø BANANAS ARE RADIOACTIVE!

Bananas contain potassium-40, a naturally radioactive isotope. But don't worry—it's perfectly safe to eat them!



Ø ROBOTS THAT HEAL THEMSELVES

Some modern robots are built with self-healing materials that can repair cracks or cuts—just like human skin!



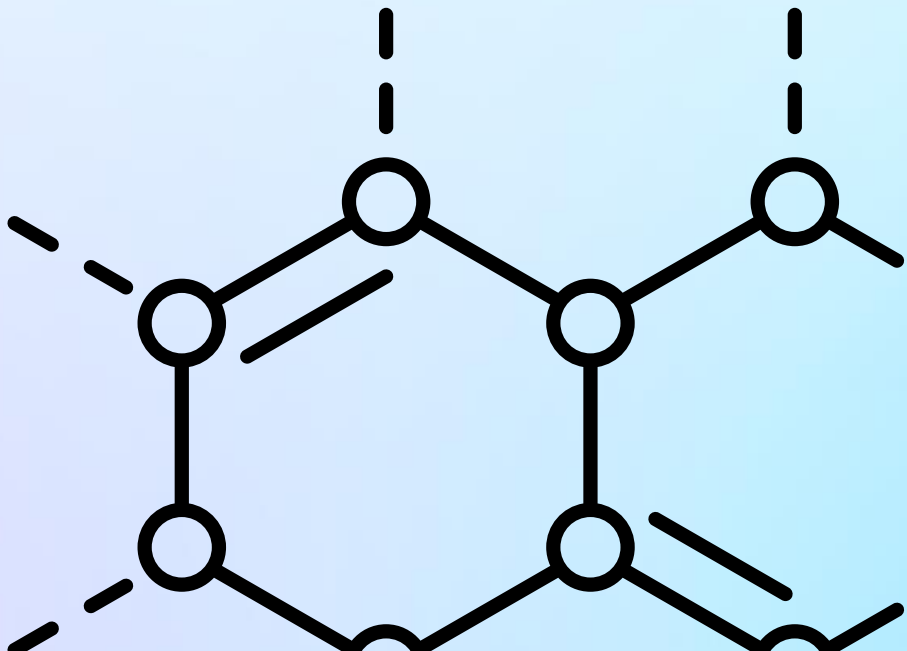
Ø YOU CAN SMELL RAIN

The earthy smell before rain is caused by a compound called geosmin, produced by soil bacteria.



Ø AI CAN DETECT DISEASES BEFORE

Artificial Intelligence **DOCTORS** now trained to detect diseases like cancer and Alzheimer's at an early stage—sometimes before symptoms appear.



$$E = m \cdot c^2$$

Ø ØPLANTS "TALK" TO EACH OTHER

Through underground networks of fungi (mycorrhizae), plants can share nutrients and warn each other of pests—scientists call it the “Wood Wide Web.”



Ø3D PRINTING

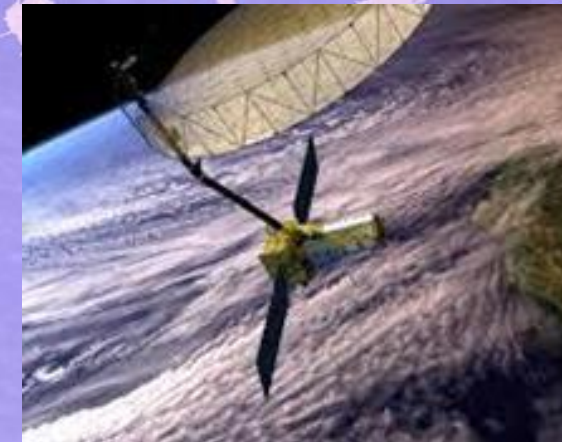
ORGANS

Scientists have already 3D-printed a mini human heart using living cells. In the future, organs might be printed on demand!



ØNASA-ISRO'S NISAR SATELLITE LAUNCH (JULY 2025)

A major Earth-observation mission using dual-frequency synthetic aperture radar (L-band from NASA, S-band from ISRO) to monitor climate change, natural disasters, vegetation, and land deformation in unprecedented detail.



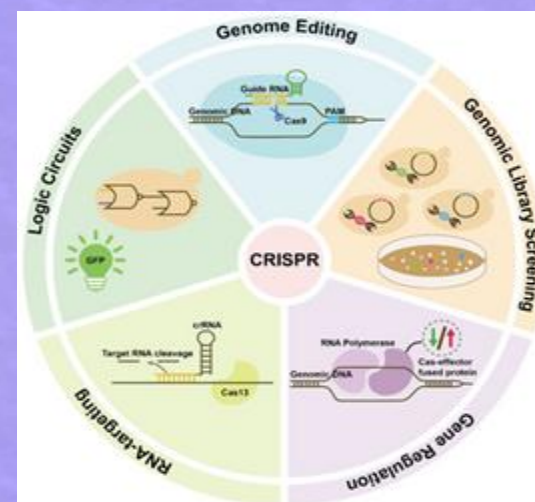
ØINDIA'S DUAL-USE SMART WINDOWS

Developed by Bengaluru's CeNS, these smart windows not only dynamically regulate heat and light but also store energy using titanium dioxide and aluminum-ion electrolytes—offering durability and affordability for sustainable buildings.



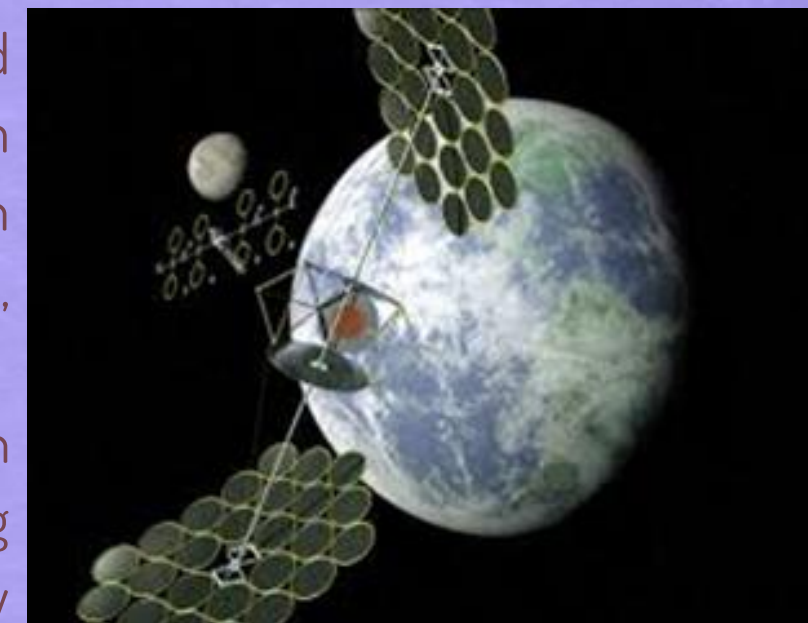
ØCRISPR 2.0 & BIOENGINEERING ADVANCES

Next-generation gene-editing techniques like prime and base editing are enabling highly precise corrections in medical and agricultural contexts—fueling possibilities from disease cures to climate-resilient crops.



ØSPACE-BASED SOLAR POWER (SBSP) PILOTS

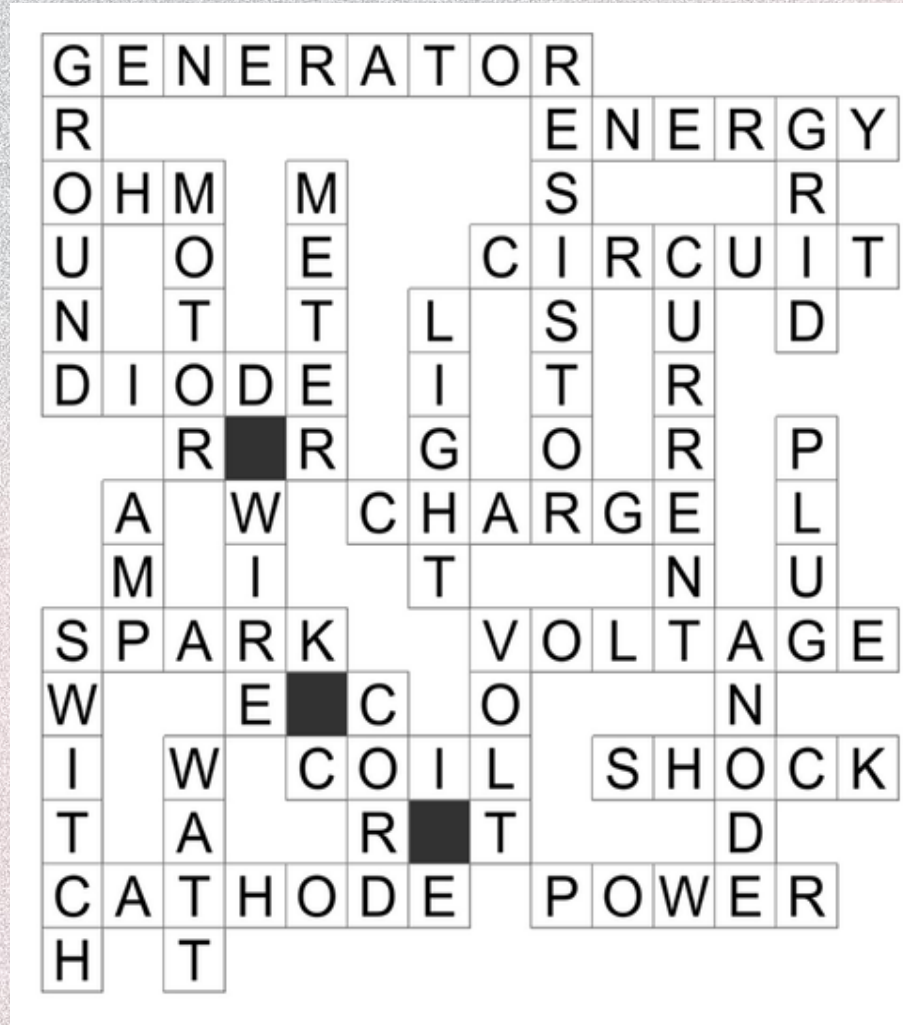
Experimental satellites are now beaming collected solar energy from space down to Earth via microwaves, offering round-the-clock clean power and pushing renewable energy frontiers.



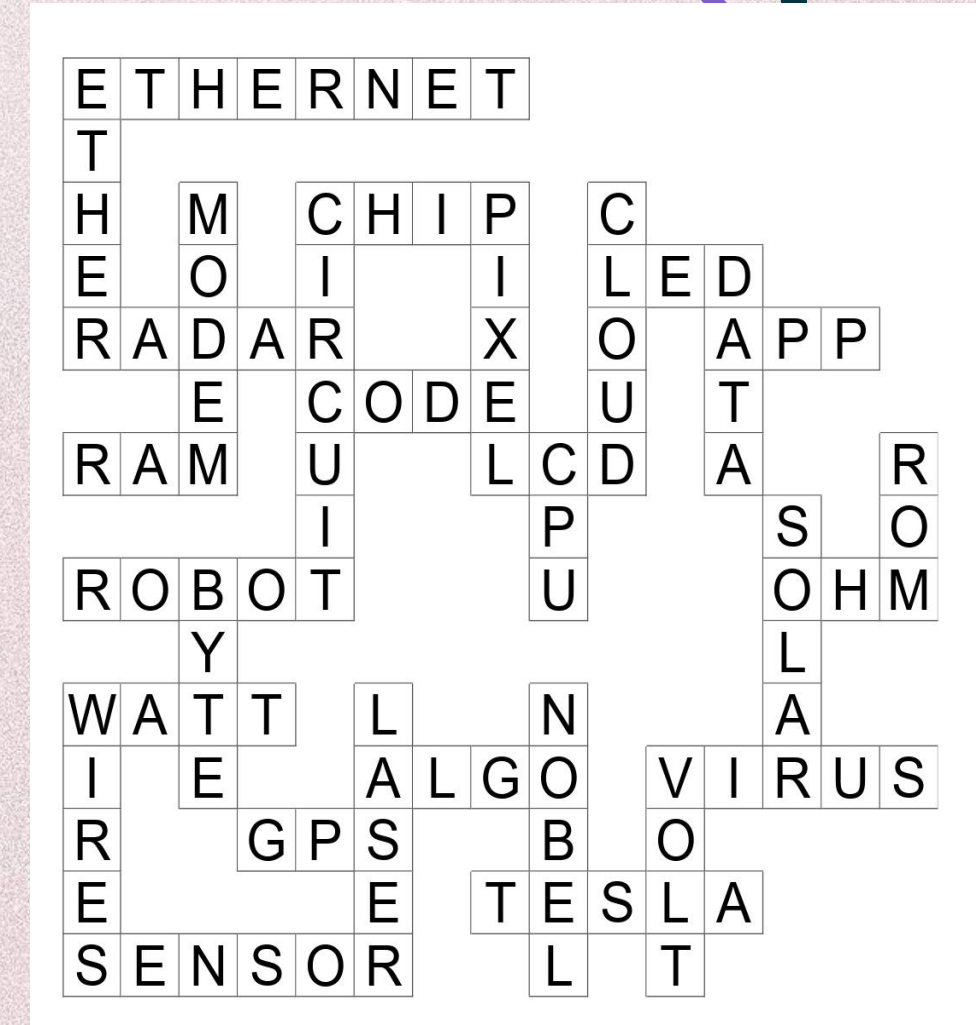


ANSWERS

1)



2)



THANK YOU!

