



Scholars
Global School

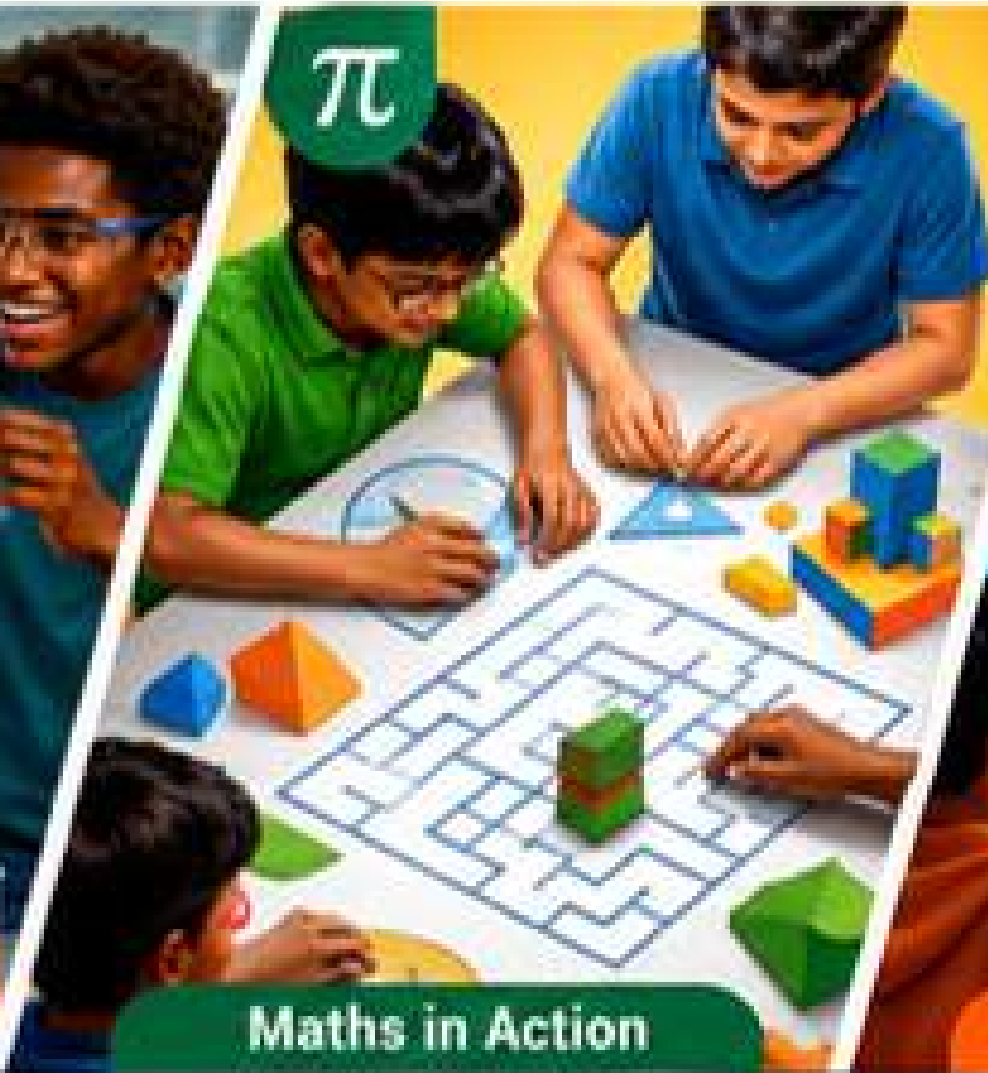
THE MIDDLE MIRROR

E-Newsletter

Presented by the Middle Wing



Science Lab Adventures



Maths in Action



SST Explorers



STEM & Robotics

EDITORIAL

It is a privilege to present the inaugural edition of The Middle Mirror, the e-newsletter of the Middle Wing. It is an endeavour to capture the spirit of learning exploration and achievement that defines our young learners.

This edition is a reflection of our learners' curiosity, creativity and accomplishments and a celebration of the vibrant learning journey at the Middle Wing.

CLASS VI

ACTIVITIES

Explore. Learn. Create. Grow.



SCIENCE



SST



MATHS



STEM



EXPLORE!

SCIENCE ADVENTURE



C FUN WITH MAGNETS – C

Our enthusiastic Grade VI students explored the fascinating world of magnets through a hands-on "Fun with Magnets" activity.

They observed the concepts of attraction and repulsion, learned the single-touch method of making a magnet and discovered that the magnetic force is strongest at the poles by using iron filings.





**The activity made
scientific concepts
engaging, interactive and
easy to understand while
encouraging curiosity and
critical thinking.**



Fun With Magnets



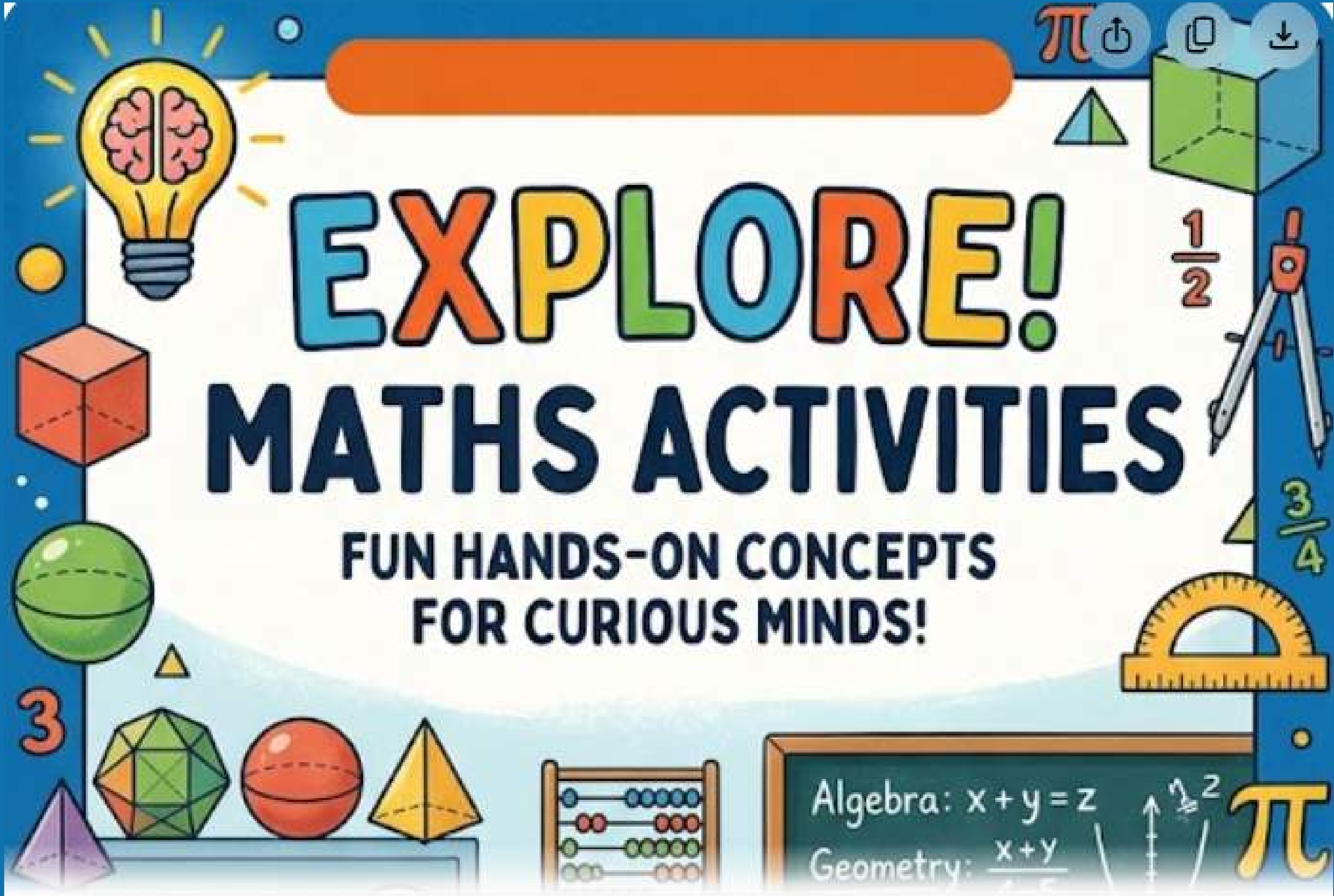
Aaditya VI - Robins



EXPLORE!

MATHS ACTIVITIES

FUN HANDS-ON CONCEPTS
FOR CURIOUS MINDS!



Learning Mathematics in Fun way Mathematics Presentation

 **Topic: Learning
Mathematics Through
Gamification – Bingo**

**The students of Class VI
enthusiastically presented
their projects on “Learning
Mathematics Through
Gamification – Bingo.”**





Vidhanshi VI - Canaries

Through fun and interactive Bingo activities, students explored Number Sense, Basic Operations, Mental Maths and Problem Solving.

The presentation demonstrated how gamification makes Mathematics enjoyable while improving participation, confidence and accuracy.



Namit VI -Swans



Eshaan VI- Doves

Mathematics Presentation

**Presentation Topic:
Exploring 3D Shapes
Through Model
Making**

**The students of Class
VI enthusiastically
presented their
Mathematics
projects on
“Exploring 3D
Shapes Through
Model Making.”**





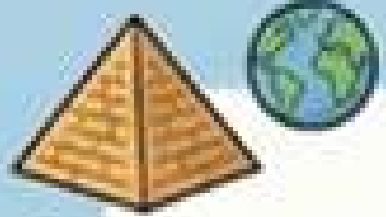
The activity promoted hands-on learning, creativity, spatial thinking and made geometry both engaging and enjoyable.



Bhavy VI - Doves



Through creative models of cubes, cuboids, cylinders, cones, spheres and pyramids, students demonstrated their understanding of 3D shapes, their properties and real-life applications.



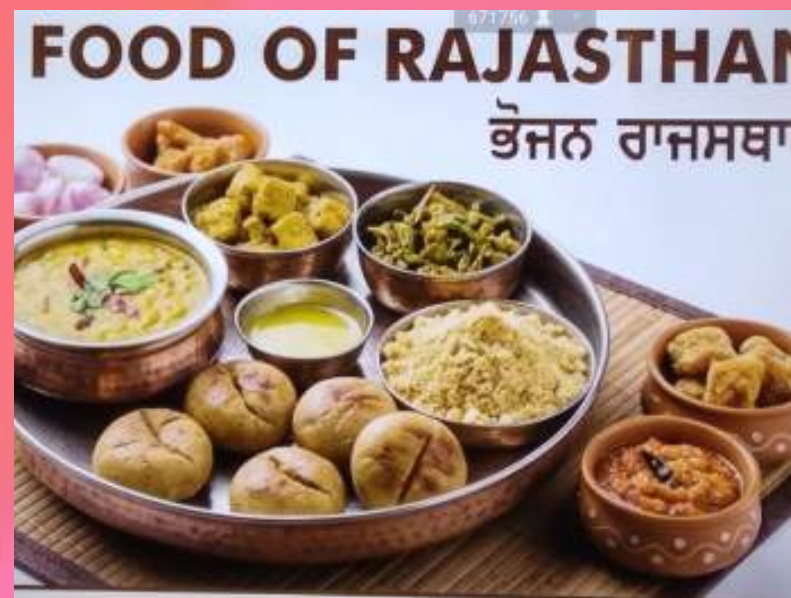
SOCIAL SCIENCE EXPLRE!

SOCIAL SCIENCE ADVENTURE



UNITY IN DIVERSITY ACTIVITY

India's true strength lies in its diversity and our Class VI students brought this spirit to life through the "Unity in Diversity" activity. Representing different states, they beautifully showcased their traditional attire, languages, festivals, dances and cuisines, celebrating the vibrant cultural tapestry of our nation.



Moksh VI- Robins



UNITY IN DIVERSITY ACTIVITY

Their confidence, creativity and enthusiasm transformed the classroom into a miniature India, reinforcing the timeless message that "Many Cultures, One Nation." The activity inspired students to respect cultural differences, embrace inclusivity and take pride in India's unity and rich heritage.



Tiya VI - Canaries



Dishani VI Robins



DANCE OF RAJASTHAN

ਨਾਚ ਰਾਜਸਥਾਨ



FOOD OF PUNJAB

ਪੰਜਾਬੀ ਦੱਬ



CLASS VII

ACTIVITIES

— Explore • Learn • Create • Grow —



SCIENCE

Discover • Observe • Understand



SST

Explore • Connect • Appreciate



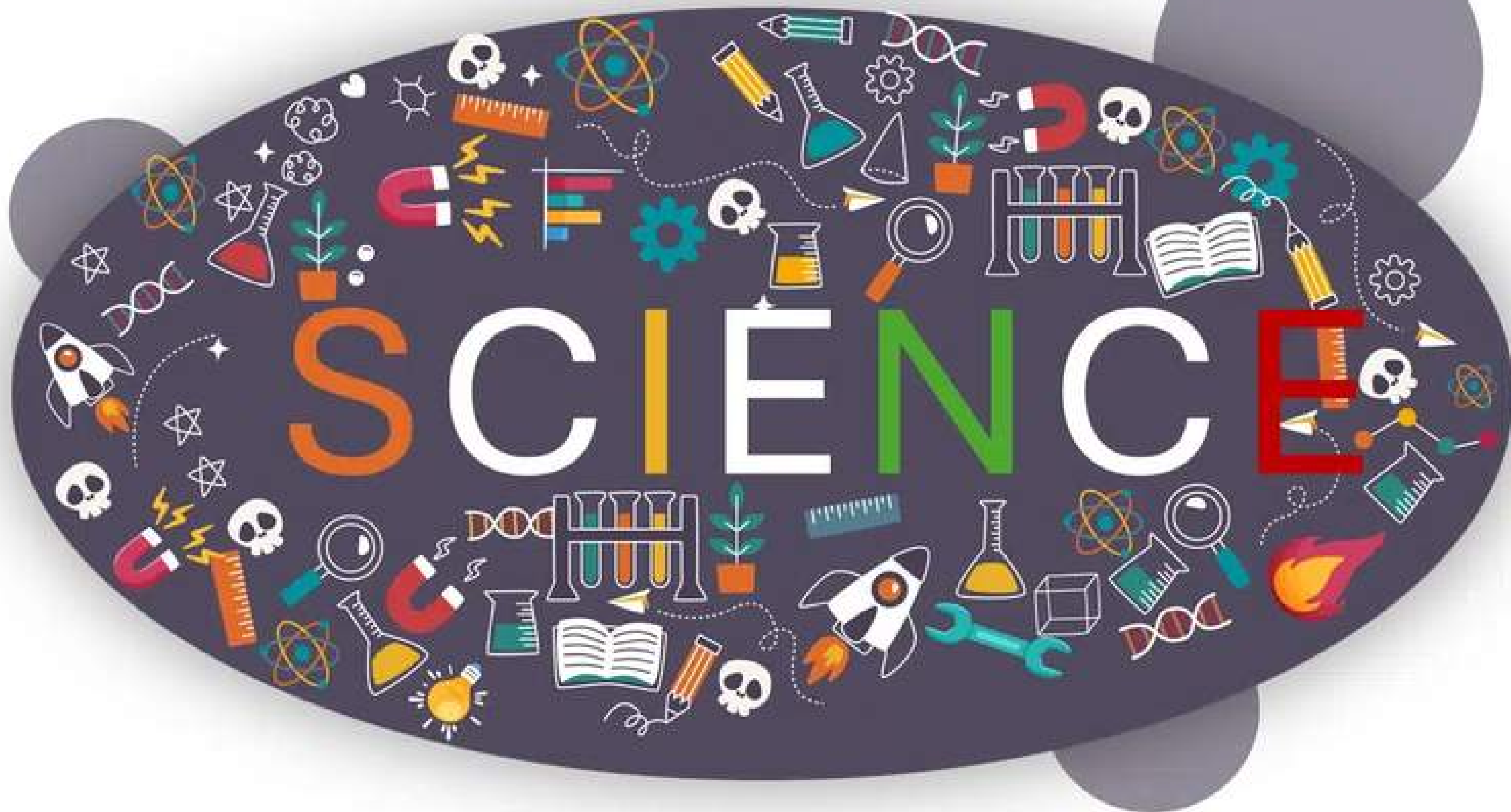
MATHS

Think • Solve • Achieve



STEM

Innovate • Design • Build



Science in Action: Exploring Convection in Liquids

Students observed convection currents using hot water and KMnO_4 crystals. As water heated, purple streaks showed warm water rising and cool water sinking. This hands-on demo made the concept of heat transfer clear and fun.



Topic:- Substances burn only at their Ignition Temperature

🔥🌿 Class VII students performed a hands-on activity to observe that substances burn only at their ignition temperature using dry and green grass, leaves, a wooden stick and glasses with and without water.

🔍💡 Students compared different materials, made observations and used critical thinking to understand how heat and moisture affect burning.





Through observation and experimentation with materials such as dry and green grass, leaves, wooden sticks and a glass filled with water, students explored the concept of ignition temperature and understood why different substances catch fire under different conditions.

🚀🧪 The activity successfully fostered curiosity, scientific thinking and hands-on learning among students.





Observe Convection Currents in Water

Convection Currents in Water Using Potassium Permanganate (KMnO_4)

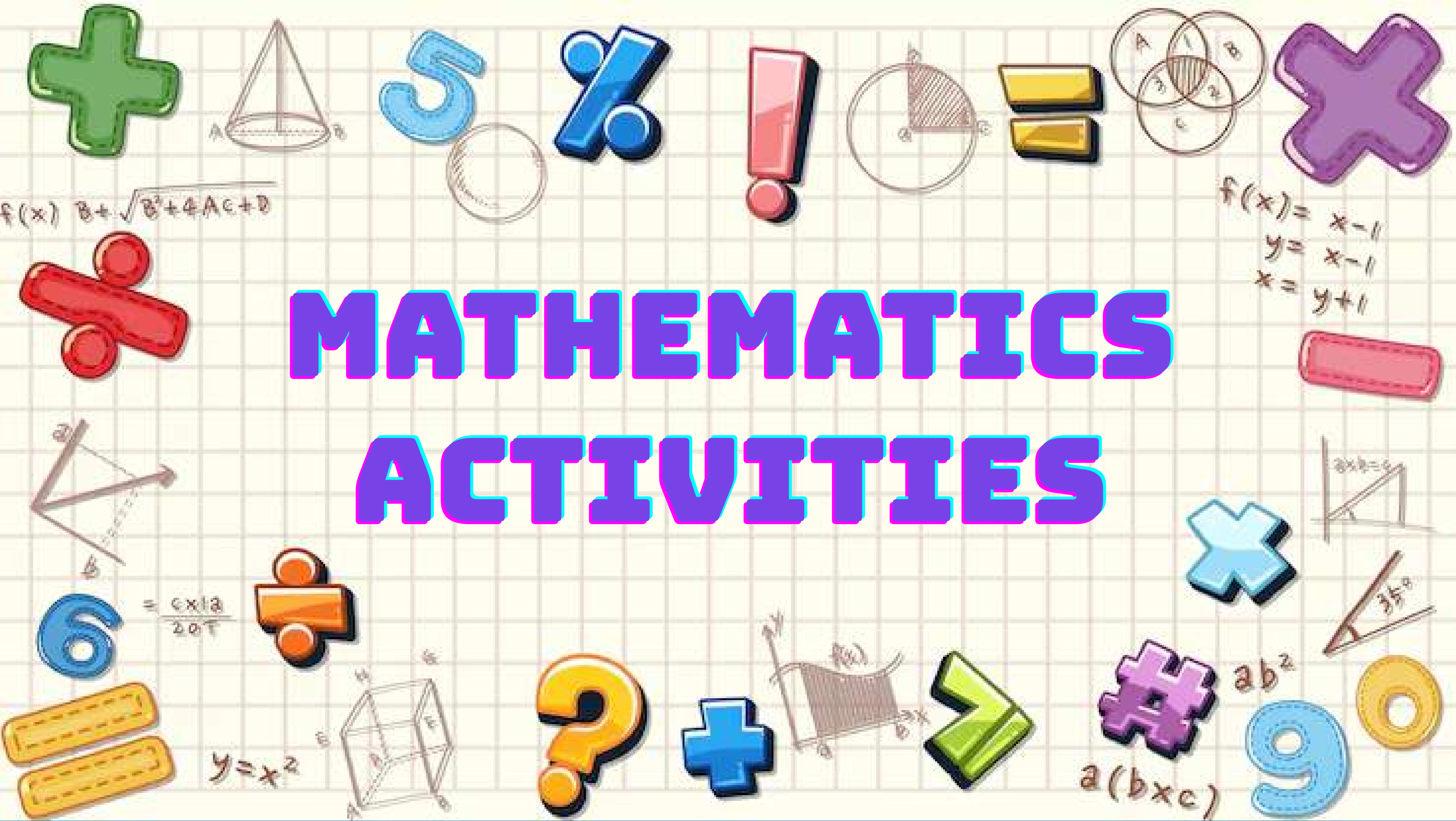
Class VII students enthusiastically performed an activity to observe **convection currents in water** using **potassium permanganate (KMnO_4)** crystals. A small crystal was placed at one side of a beaker containing water, which was gently heated from below. Students carefully observed the purple colour moving in circular paths, showing how warm water rises while cooler water sinks, forming convection currents.





They predicted the direction of movement, shared their observations and explained the results with their classmates. Through this interactive activity, students learned that **heat is transferred in liquids by convection**, understood the movement of water due to temperature differences and strengthened their observation, scientific reasoning and teamwork skills.





Mathematics presentation on "Addition and Subtraction of Algebraic Expressions"



Pallavi-VII Doves



Panav-VII Doves

The Class VII Mathematics presentation on "Addition and Subtraction of Algebraic Expressions" was a vibrant showcase of student learning and creativity. Students used colorful charts and interactive activities to demonstrate the process of combining like terms in algebraic expressions. This hands-on approach not only clarified the abstract concepts but also made algebra an engaging subject for everyone involved.

Mathematics presentation on "Addition and Subtraction of Algebraic Expressions"



Arjun-VII Doves

Through this exercise, students enhanced their conceptual understanding, honed their logical thinking and boosted their problem-solving abilities. The enthusiasm and confidence they displayed in simplifying complex expressions underscored the success of this educational experience, transforming algebra from a daunting challenge into an enjoyable and accessible subject.



EVOLUTION OF NUMBERS SINCE ANCIENT CIVILIZATIONS

Through informative charts , creative timelines , models  and illustrations , students explored how number systems developed across ancient civilizations, including the Egyptians , Babylonians , Romans  and Indians . They highlighted the significance of the Hindu-Arabic numeral system, the invention of zero (0) and the gradual evolution of numbers into the system used around the world today.



MARKET SCENE ACTIVITY

Learning Addition and Subtraction of Decimal Numbers Through a Market Scene

The students of Class VII enthusiastically participated in an engaging Market Scene Activity to strengthen their understanding of addition and subtraction of decimal numbers. By taking on the roles of shopkeepers and customers, students calculated the total cost of items, added prices \$, made payments and worked out the correct balance amount.



MARKET SCENE ACTIVITY

Learning Addition and Subtraction of Decimal Numbers Through a Market Scene

This activity enhanced accuracy, mental calculation, problem-solving, financial literacy, communication and teamwork 🤝 while fostering confidence in using decimal operations in everyday life. It was a fun-filled learning experience that turned Mathematics into an exciting real-world adventure!



MARKET SCENE ACTIVITY



SOCIAL SCIENCE



TIME TRAVEL MARKET – A JOURNEY THROUGH THE EVOLUTION OF TRADE



Our Class VII students brought history to life through the engaging "Time Travel Market" activity, where they creatively showcased the fascinating evolution of trade and currency across different ages. The journey began with the Ancient Barter System, where students exchanged goods to understand the challenges of trading without money. They then stepped into the Metal Coin Age, demonstrating how coins transformed commerce by introducing a standardized medium of exchange. The exploration continued with the Paper Money Age, highlighting the convenience and growth of trade through currency notes. Finally, students entered the Digital Age, confidently presenting modern cashless transactions using UPI, cards and digital wallets.



Through role plays, market stalls and interactive demonstrations, students not only explored the history of trade but also developed communication, collaboration, critical thinking, and financial awareness. Their enthusiasm, creativity and confidence made the activity a memorable learning experience, proving that history becomes truly meaningful when it is experienced, not just studied. From barter to bytes, our young historians travelled through time and discovered how trade has shaped civilizations and continues to evolve with technology.



Step In
Learn More
Go Further

CLASS VIII

Activities

Explore • Learn • Create • Grow



SCIENCE

Discover the Wonders
of Nature



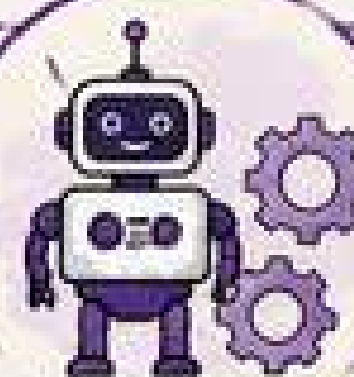
SST

Understand the World
Explore the Past



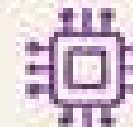
MATHS

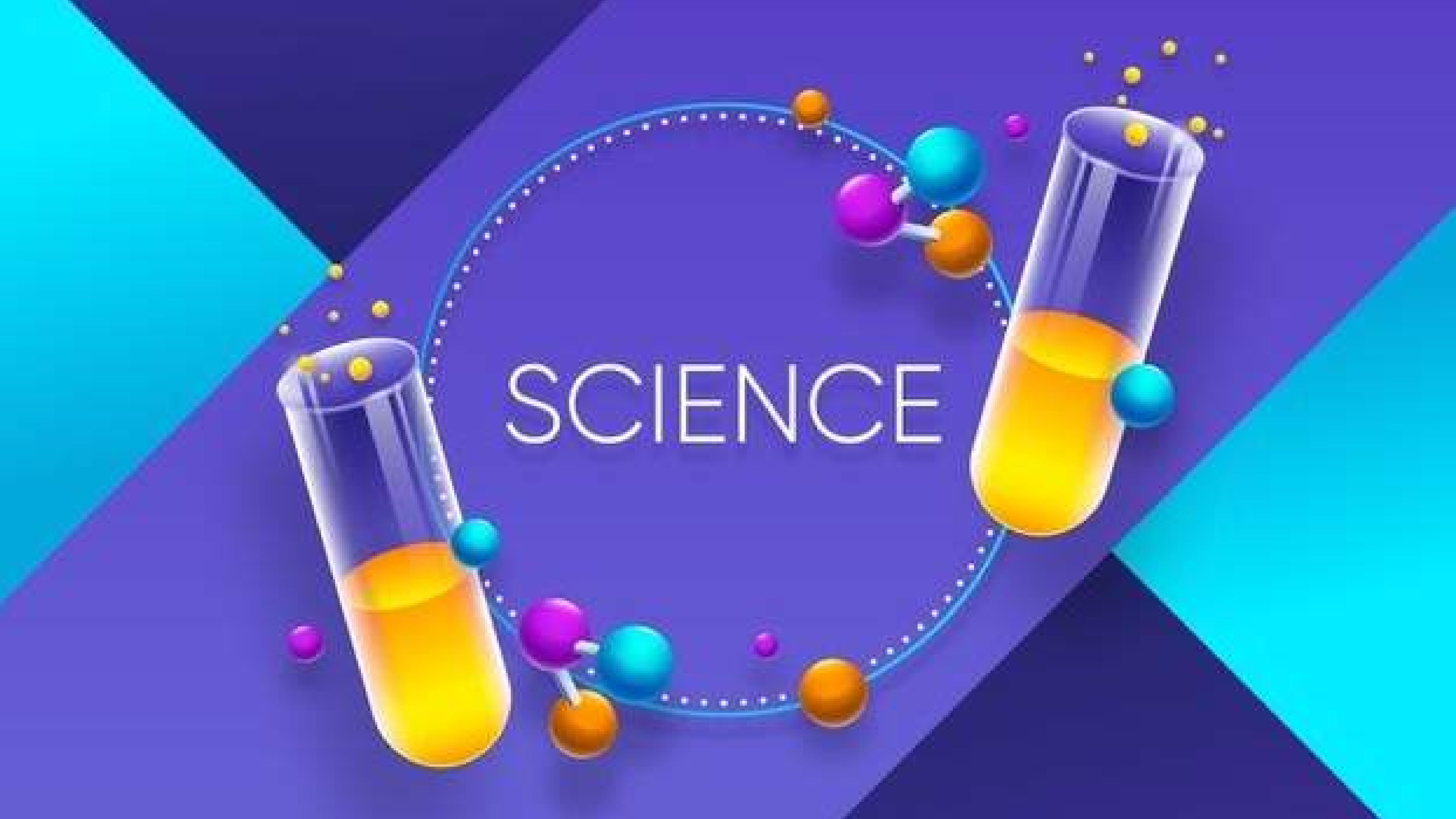
Think • Solve
Achieve



STEM

Innovate • Design
Build the Future



A vibrant science-themed graphic. The background is a deep purple with large, bright cyan triangular shapes in the corners. In the center, the word "SCIENCE" is written in a white, sans-serif font. Surrounding the text is a circular arrangement of various scientific icons: two test tubes filled with yellow liquid, several molecular models with orange, cyan, and magenta spheres, and a dotted blue line. Small, glowing yellow and cyan particles are scattered throughout the scene, creating a sense of dynamic scientific activity.

SCIENCE

Biology Presentation

 ✨ Presentation Topic:

Behaviour and Balance

Between Different

Components of an Ecosystem



Presentation Summary

Today, the students of **Class VIII** enthusiastically presented their Biology projects on “**Behaviour and Balance Between Different Components of an Ecosystem.**”



 The presentations beautifully demonstrated how **biotic components** (Plants, Animals, Microorganisms) and **abiotic components** (Sunlight, Water, Air, Soil, Climate) work together to maintain the delicate balance of nature.

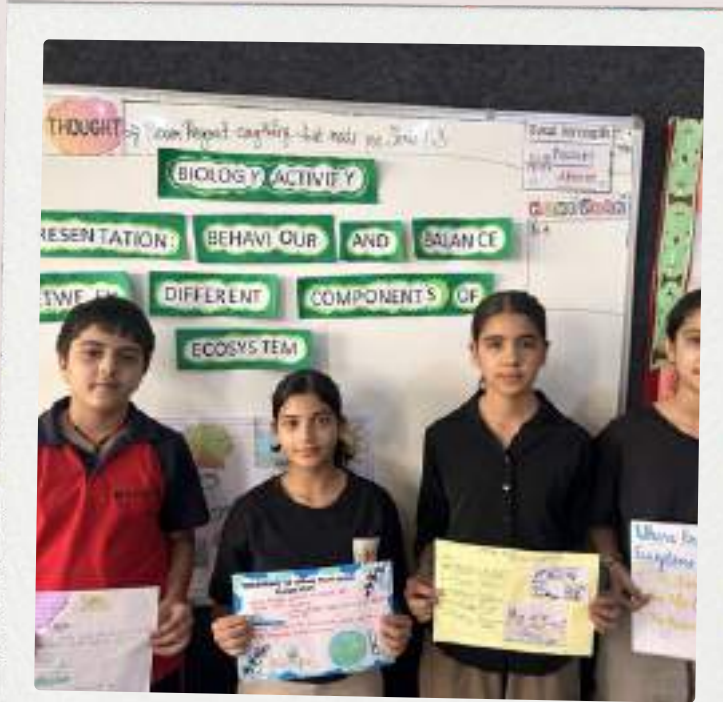






Behaviour and Balance Between Different Components of Ecosystem





Behaviour and Balance Between Different Components of Ecosystem



TOPIC- MAGNETIC EFFECT OF ELECTRIC CURRENT

CHEMISTRY

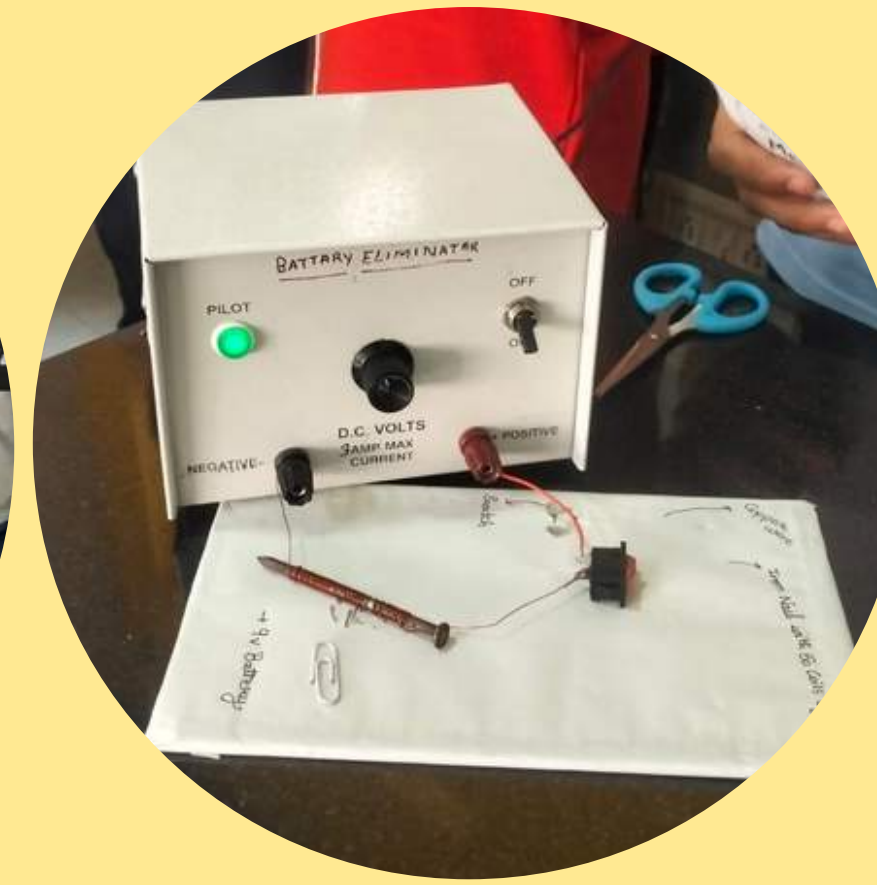
⚡ Class VIII students explored the *Magnetic Effect of Electric Current* through an exciting hands-on activity. Their curiosity was sparked as they investigated how electricity can create magnetism using a simple electric circuit.

💡 Students observed the deflection of a compass needle near a current-carrying wire and applied critical thinking to understand how the direction of current affects the magnetic field produced.





The activity enhanced scientific inquiry and practical skills while helping students connect the concept with real-life applications such as electric bells, electromagnets and electric motors, making learning engaging and meaningful.



Understanding Pressure with a Paper Bridge

PHYSICS

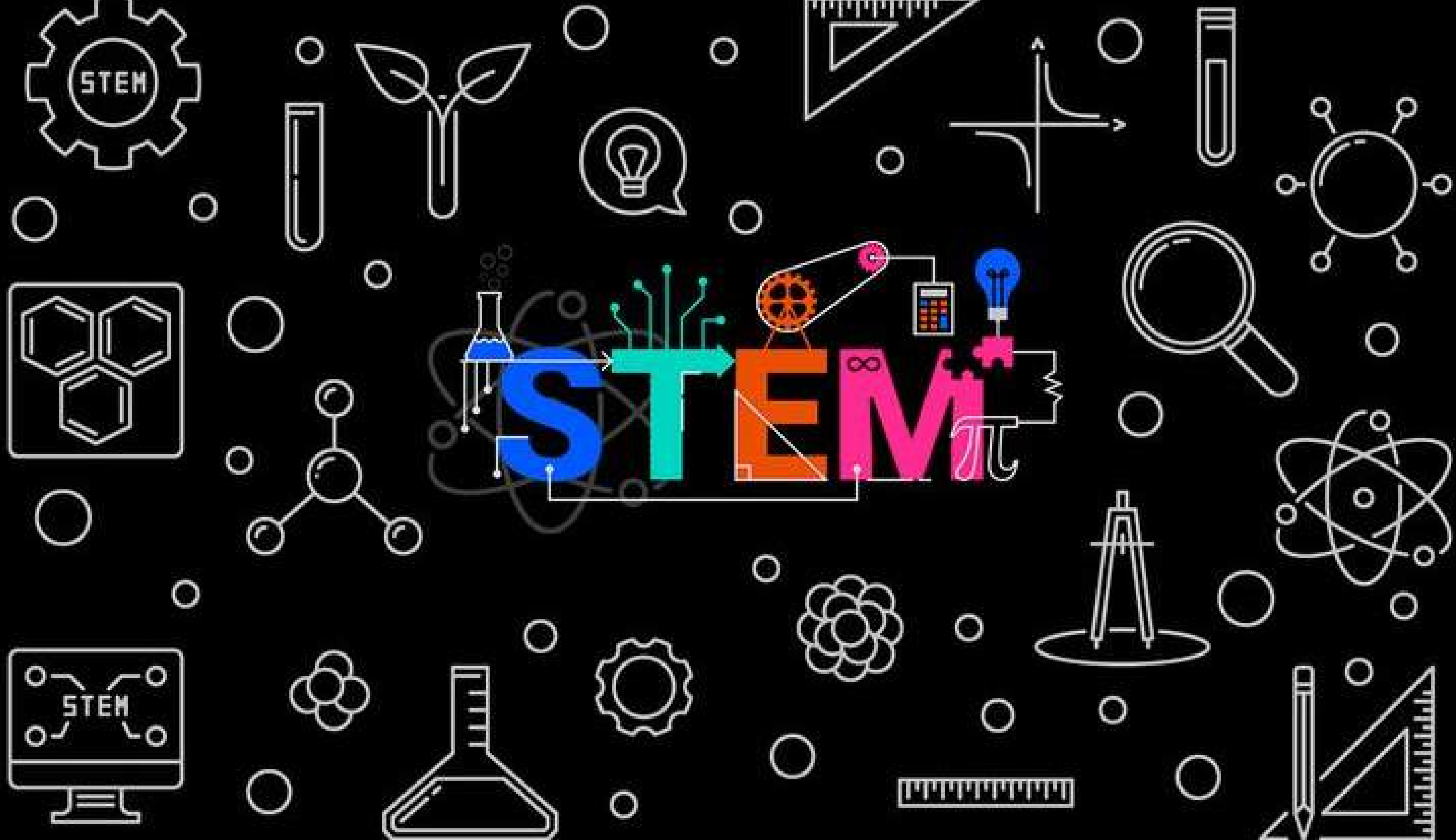
Students built paper bridges to explore how force and area affect pressure.

By placing weights on bridges of different widths, they observed that the same force over a smaller area causes the bridge to collapse faster.

This activity made the concept of Pressure clear, visual and fun.







Lights, Buzzes and Sensors

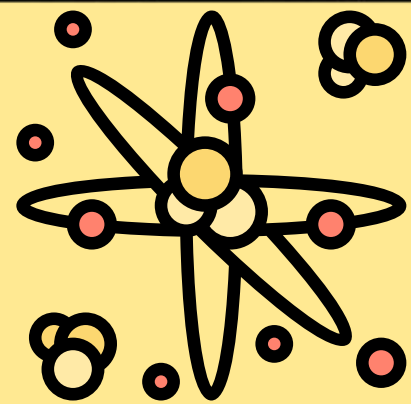
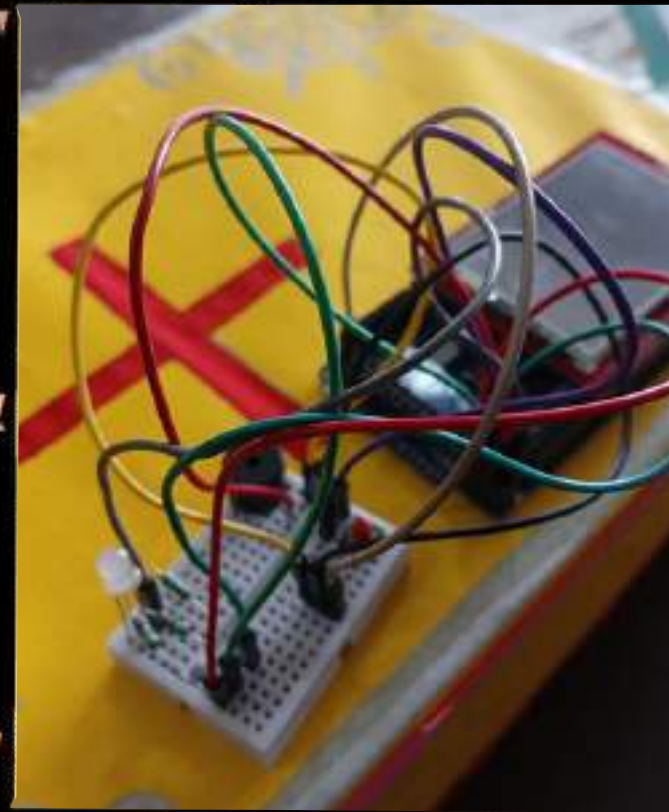
-STEM in Action - Classes VI-VIII

Students explored the world of electronics through hands-on STEM activities using LEDs, buzzers, diodes and sensors. They built circuits to see how inputs trigger outputs – from lighting an LED to making a buzzer sound and using sensors to detect changes. This experience made concepts of circuits, conductivity and automation clear, engaging and fun.





STEM



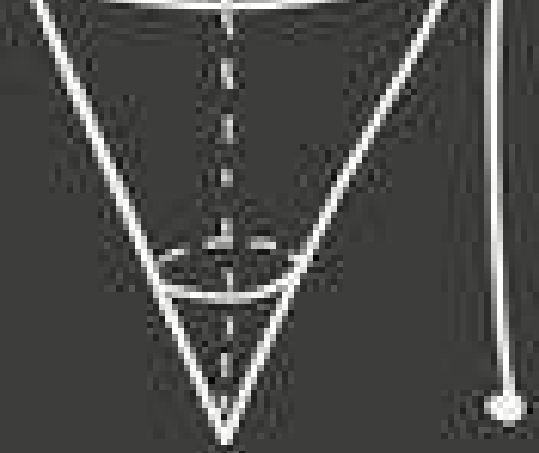


$$Q=U+A$$

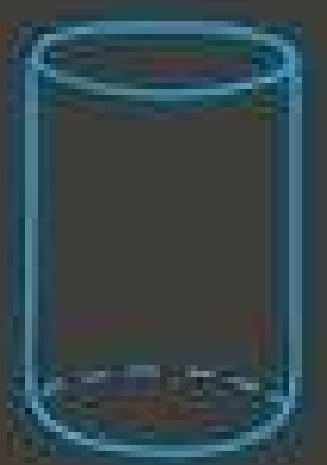
$$E=mc^2$$



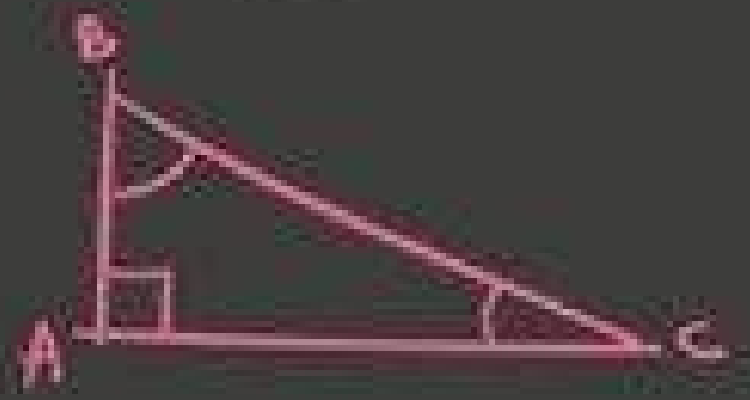
$$S=V \cdot t$$



$$\lambda = \frac{c}{\nu}$$



$$P=P_0-(V-100)k$$

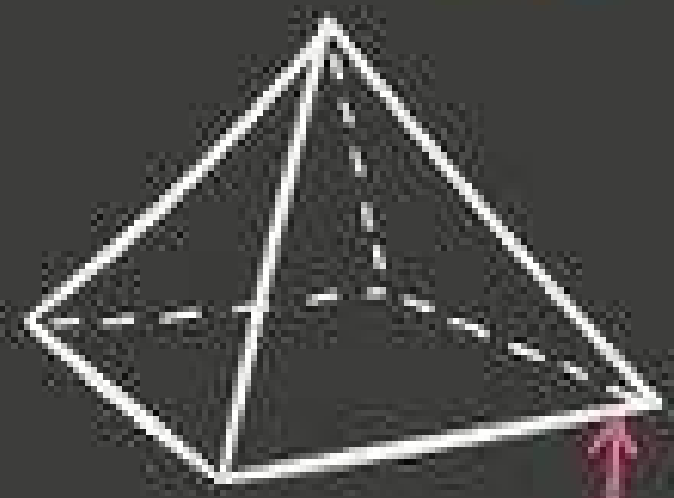


$$C_2 = C_1^{\alpha} (\alpha - \alpha_0)$$

$$E=mc^2$$



$$P=m \cdot V \quad T=2\pi \sqrt{\frac{l}{g}}$$

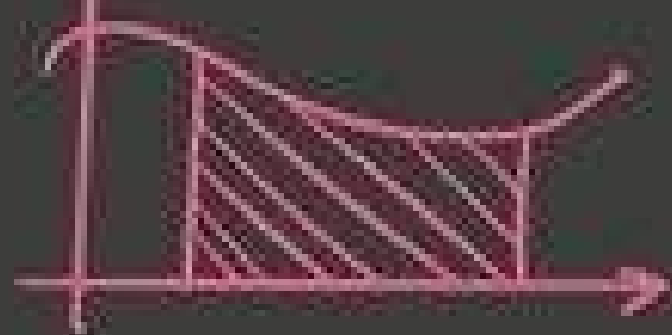


$$V=\frac{1}{r}$$

MATH

$$x+y=a^2$$

$$T=2\pi \sqrt{\frac{l}{g}}$$



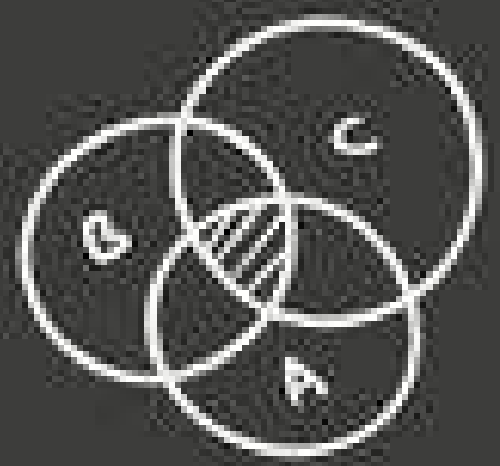
$$R=P \cdot \frac{e}{s}$$

$$Y=C_1 P \frac{V^2}{2} S$$



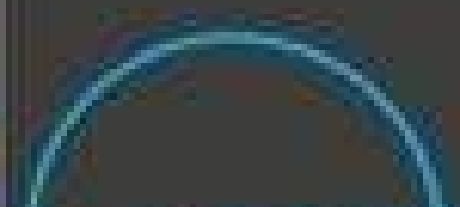
$$Q=U$$

$$(x+c)(x-c)=x^2-c^2$$

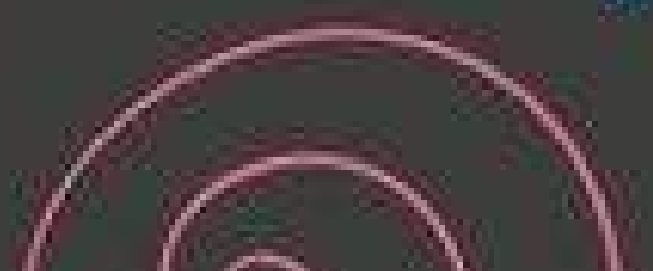


$$E_k = \frac{mV^2}{2}$$

$$T=2\pi \sqrt{\frac{l}{g}}$$



$$\frac{1}{2} kx^2$$





VERIFYING THAT THE SUM OF THE FOUR ANGLES OF A QUADRILATERAL IS 360°

The students of Class VIII enthusiastically participated in a hands-on Mathematics activity to verify that the sum of the four interior angles of a quadrilateral is 360° . 📏 📄

Using colourful paper cut-outs ✂️ 🎨, rulers 📏 and protractors 📐, students measured the interior angles of different quadrilaterals and explored their properties.

They then cut and arranged the four angles to form a complete circle, demonstrating that their sum is 360° .

☀️ The activity promoted conceptual understanding 🧠, logical reasoning 💡, accuracy in measurement 🎯, critical thinking 🧩 and hands-on learning 🙌 while making Geometry engaging, interactive and enjoyable.



A vibrant, cartoon-style illustration of outer space. The background is a deep navy blue with soft, wavy shapes in lighter blue and purple. In the top left, a green and orange comet with a blue nucleus streaks across the sky. In the top center, a blue and green Earth with white clouds is visible. In the top right, a large, bright yellow sun with a face and rays shines. In the bottom left, a green and purple rocket with orange flames is launching. In the bottom center, a red Saturn with a purple ring is shown. In the bottom right, a large, orange, cratered planet resembling Mars is partially visible. The text 'SOCIAL SCIENCE' is centered in a white rectangular box.

SOCIAL SCIENCE

COLLABORATIVE LEARNING - MOCK PARLIAMENT



The Mock Parliament activity provided Class VIII students with a practical understanding of how a democratic government functions. Students took on the roles of the Speaker, Prime Minister, Ministers, Opposition Members and Members of Parliament to debate important issues, present viewpoints and experience the process of law-making. The activity encouraged active participation, respectful discussion and informed decision-making while strengthening their understanding of parliamentary procedures.

Learning Outcomes

Understand the structure and functioning of the Indian Parliament and the process of debate and decision-making.
Develop communication, critical thinking, leadership and teamwork skills through active participation in parliamentary discussions.

OVERVIEW

Education is a journey of discovery, where every classroom experience adds a new chapter to a child's growth. As we look back on the vibrant learning experiences shared in these pages, we are reminded that true learning extends far beyond textbooks—it is reflected in curiosity, creativity, critical thinking and character. We remain committed to providing opportunities that empower every learner to dream big, think deeply and contribute meaningfully to the world around them.

Together, let us continue to learn, grow and inspire.

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