

SCIENCE CLUB 2025-2026

Month -APRIL'2025

Class Pre-Primary : Bridge making with the help of the sticks.

Classes	Pre-School
Total No. of Students	106
Total No. of Submissions	90
Date	29.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Art Integration
Skills Developed	Creativity Knowledge and understanding
Learning Objectives	Students will be able to learn about
Conducted by	Ms. Nisha Ahuja, Ms. Annupama and Ms. Shagunpreet
Any Other	



Description of the Activity: Children were engaged in bridge building activities independently or with assistance. Students were asked to set a paper cups and challenge them to build using the cups

Learning Outcomes:

1. Students learn to observe details ,work together,express their creativity.
2. Students also learn very basic engineering skills such as design and building structures .

Class Pre-School : Fallen leave collection

Classes	Pre-School
Total No. of Students	100
Total No. of Submissions	95
Date	15.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Art Integration
Skills Developed	Creativity Knowledge and understanding
Learning Objectives	Students will be able to learn about
Conducted by	Ms. Kusum, Ms. Rekha Negi and Ms. Shina
Any Other	



Description of the Activity: Children were engaged in hands-on sorting activities independently or with assistance. Students were asked to paste pictures of different sizes and shapes on an A4 size sheet.

Learning Outcomes:

1. Students learn to observe details such as leaf shape, size, colour, edge patterns.
2. Handling and sorting small leaves can improve coordination and dexterity.

Class I :Sorting Leaves

Classes	IA & IB
Total No. of Students	106
Total No. of Submissions	95
Date	15.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Art Integration
Skills Developed	Creativity Knowledge and understanding
Learning Objectives	Students will be able to learn about
Conducted by	Ms. Saloni & Ms. Jasmeet
Any Other	



Class II : Wind Power Pinwheel

Classes	II-A & II-B
Total No. of Students	105
Total No. of Submissions	90
Date	11.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Experiential Learning
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to learn about the concept of Wind Power..
Conducted by	Ms. Paridhi & Ms. Komal
Any Other	

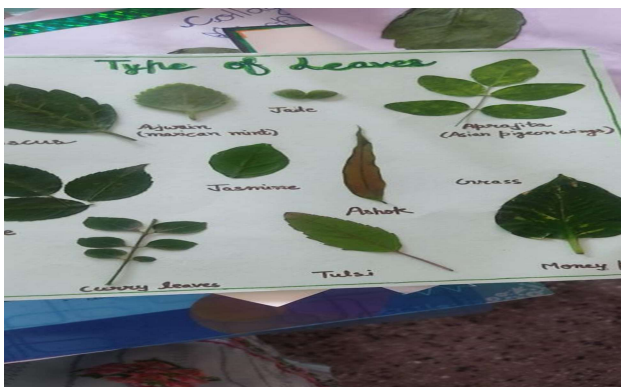
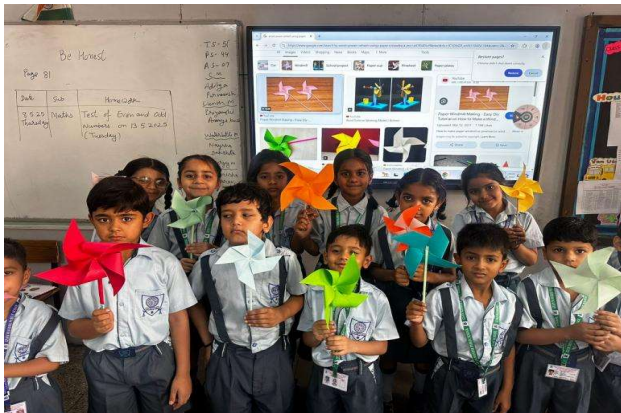
Description of the activity:

In this activity, students will make a simple pinwheel using paper, a straw, and a pin under the guidance of teacher step-by-step by folding the paper into a pinwheel shape and attach it to the straw so it can spin freely. Once completed, students will test their pinwheels by blowing on them or holding them in front of a fan. They will observe how the wind makes the pinwheel spin, helping them understand that moving air (wind) can create motion and is a form of energy.

Learning outcomes:

- Understand that moving air (wind) can create motion.
- Build a simple model that demonstrates wind energy.
- Develop observation and comparison skills by testing pinwheels with different wind sources.

Glimpse of the activity:



Signature:

Teacher Incharge

Club Incharge

Principa

Class III: Floating and Sinking: Exploring Buoyancy

Primary Department

Classes	III-A & III-B
Total No. of Students	105
Total No. of Submissions	92
Date	9.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Experiential Learning
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to learn about the concept of buoyancy.
Conducted by	Ms. Paridhi & Ms. Komal
Any Other	

Description of the activity:

This fun and interactive activity helps students explore why some objects float while others sink by conducting hands-on experiments with everyday items in water. It fosters curiosity, critical thinking, and an understanding of buoyancy.

Learning outcomes:

- ☐ Students identified and classify objects based on whether they float or sink in water.
- ☐ Students make predictions and conduct simple experiments to test their hypotheses.
- ☐ Students observed and record the results of their experiments accurately.

Glimpse of the activity:



Signature:

Teacher Incharge

Club Incharge

Principa

Class IV :Kitchen Chemistry: A Fun with Acids and Bases

Primary Department

Classes	IV-A & IV-B
Total No. of Students	106
Total No. of Submissions	92
Date	9.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Experiential Learning
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to learn about difference between acids and bases
Conducted by	Ms. Paridhi & Ms. Monika Lamba
Any Other	

Description of the activity:

Explore the world of kitchen chemistry by conducting fun and easy experiments using everyday ingredients such as baking soda, vinegar, and lemon juice. Students will learn about acids and bases and how they are used in cooking and cleaning.

Learning outcomes:

1. Understanding Acids and Bases: Students gained knowledge about the properties and reactions of acids and bases through hands-on experiments.
2. Application in Daily Life: Students learned how acids and bases are used in cooking and cleaning, relating chemical concepts to everyday life.
3. Scientific Inquiry Skills: Students developed observation, experimentation, and analytical skills through conducting and interpreting the results of kitchen chemistry experiments.

Glimpse of the activity:



Signature:

Teacher Incharge

Club Incharge

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Class V :Terrarium creation**Primary Department**

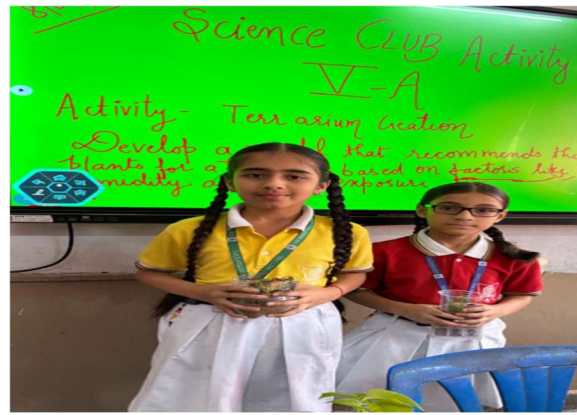
Classes	V-A & V-B
Total No. of Students	107
Total No. of Submissions	99
Date	8.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Art Integration
Skills Developed	Creativity Knowledge and understanding
Learning Objectives	Students will be able to learn about the nature
Conducted by	Ms. Manisha & Ms. Dimple
Any Other	

Description of the activity:

Students developed a model that recommended the most suitable plants for a terrarium based on factors like temperature, humidity, and light exposure. They also learned about the importance of recycling and reusing materials during the terrarium creation process.

Learning Outcomes :

- ☐ Students understood how environmental factors like temperature, humidity, and light affect plant growth.
- ☐ They applied scientific knowledge to create a functional and aesthetic terrarium.
- ☐ They developed problem-solving and decision-making skills by selecting appropriate plants based on given conditions.



Signature:

Teacher Incharge

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Class VI : Dancing Raisins: Exploring the Science of Buoyancy and Gases Description.**Middle Department**

Classes	VI
Total No. of Students	104
Total No. of Submissions	100
Date	9.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Art Integration Gamification
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to learn about the nature
Conducted by	Ms. Manisha and Ms.Rableen
Any Other	

Description of the activity:

This hands-on activity introduced children to basic scientific concepts such as buoyancy, density, and gas formation. Using simple household materials, students observed how raisins "danced" in a carbonated liquid or in a mixture of baking soda and vinegar. The experiment encouraged curiosity, observation, and critical thinking as students discovered how gases interacted with objects in liquids.

Learning outcomes:

- ☐ Students explained how gases made objects float and sink in a liquid.
- ☐ They identified the formation of carbon dioxide bubbles in liquids.
- ☐ They discussed why objects rose and sank based on density differences.

Glimpse of the activity:



Signature:

Teacher Incharge

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Class VII :Activity – Construction Of a Food Web

Middle Department

Classes	VII
Total No. of Students	102
Total No. of Submissions	95
Date	21.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Art Integration Gamification
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to learn about the nature
Conducted by	Ms. Monika and Ms.Rableen
Any Other	

Description of the activity: students will explore the interconnectedness of organisms within an ecosystem by constructing a food web. Students will select an ecosystem like rainforest, desert, ocean, local habitat, and prepare index cards. Now using strings and a visual layout, students will map out the feeding relationships between producers, consumers, and decomposers. The activity will help them understand energy flow, the roles of different organisms, and the impact of changes within ecosystems.

Learning outcomes:

1. Identify the roles of organisms (producers, consumers, and decomposers) in an ecosystem.
2. Illustrate the feeding relationships between organisms by constructing a food web.
3. Explain the flow of energy through an ecosystem, from producers to top predators.
4. Analyze the impact of removing or adding organisms to the food web.
5. Understand the interdependence of living organisms within an ecosystem.

Glimpse of the activity:



Class VIII : Bridge Building Challenge

Middle Department

Classes	VIII-A & VIII-B
Total No. of Students	105
Total No. of Submissions	96
Date	9.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Art Integration(with mathematics) Gamification
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to learn about different types of bridge
Conducted by	Ms. Manisha & Ms. Monika Lamba Ms.Kamia &Ms.Rableen
Any Other	

Description of the activity:

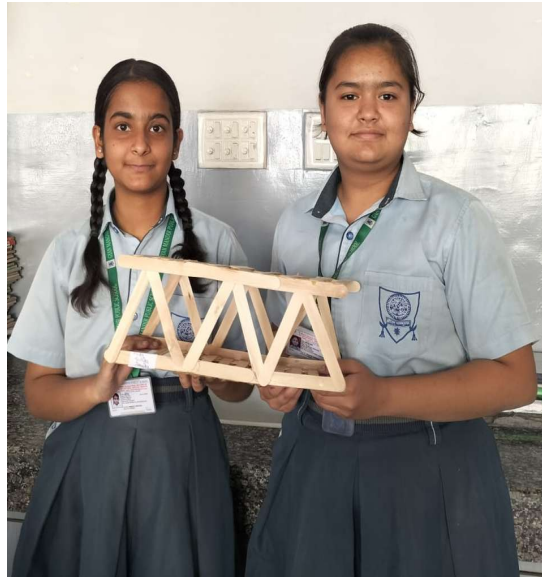
Students will work in teams to design and build a bridge using various materials (e.g., popsicle sticks, straws, clay, etc.). The challenge requires students to balance strength, efficiency, and aesthetics while adhering to specific constraints (e.g., maximum weight, minimum span).

Learning outcomes:

1. Problem-Solving Skills: Students developed critical thinking and problem-solving abilities by designing and building a bridge under specific constraints.
2. Teamwork and Collaboration: Students learnt to work effectively in teams, sharing ideas and responsibilities to achieve a common goal.

3. Application of STEM Concepts: Students applied scientific and mathematical principles to design and construct a structurally sound bridge.

Glimpse of the activity:





Signature:

Teacher Incharge

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Class IX SCIENCE

Senior Department

Classes	IX-A & B
Total No. of Students	107
Total No. of Submissions	95
Date	IX-A-22.04.25 IX-B- 21-04-25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Experiential learning Gamification
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to learn about the nature
Conducted by	Chemistry- Ms. Manisha & Ms. Kamia Physics- Ms.Rableen Biology: Ms. Kamia and Ms. Monika
Any Other	

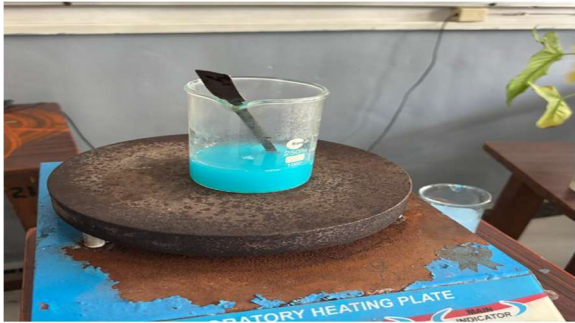
Chemistry

Description of the activity: In this activity, students grew beautiful blue copper sulphate crystals by creating a saturated solution and allowing it to cool and evaporate over time. This hands-on experiment provided an engaging way to explore concepts such as solubility, saturation, evaporation, and crystal growth.

Learning outcomes:

- ☐ Students explained the process of making a saturated solution.
- ☐ They described how evaporation led to crystal formation.
- ☐ They observed and analyzed the growth patterns of crystals over time.
- ☐ Students related the experiment to real-world examples of natural crystal formation.

Glimpse of the activity:



Physics

Description of the activity: FOR JAL TARANG-Fill bowls with varying amounts of water to create different water levels. Strike the edges of the bowls gently with a stick or spoon. Observe the sound produced by each bowl and note how water level changes the pitch.

Learning outcomes:

1. Understand the concept of sound production and how vibrations generate sound.
2. Explore the relationship between the pitch of a sound and factors like length, tension, and medium of vibration.
3. Investigate how the medium (air or water) affects frequency and sound quality.
4. Develop hands-on skills in experimenting with traditional musical instruments.

Glimpse of the activity:



Biology:

Description of the activity: Extraction of DNA from fruit pulp: In this engaging and hands-on activity, students extracted DNA from fruit, such as bananas. By using everyday materials like dish soap, salt, and ethanol, students were able to visualize and isolate the DNA from the fruit. This activity provided a unique opportunity for students to explore the fascinating world of genetics and molecular biology, while developing essential laboratory skills and techniques.

Biology:

1. Students gained insight into the structure and function of DNA, understanding its significance in genetic inheritance.
2. Students developed essential laboratory skills, including measurement, mixing, and observation techniques.
3. Students applied scientific concepts to real-world examples, visualizing DNA extraction and understanding its relevance to genetics and molecular biology.

Glimpse of the activity:



Signature:

Teacher Incharge

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Class X

Senior Department

Classes	XA & B
Total No. of Students	102
Total No. of Submissions	95
Date	X-A-25.04.25 X-B- 29-04-25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Experiential learning Gamification
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to learn about the nature
Conducted by	Chemistry- Ms. Sangeeta and Ms. Manisha Physics-Mr. J S Mishra and Ms. Rableen Biology- Ms. Kamia and Ms. Monika
Any Other	

Chemistry:

Description of the activity:

This activity introduced students to the essential properties of soil and their role in supporting plant life. Through simple soil tests, students examined the texture, water retention, pH level, and organic content of different soil samples. The experiment helped students understand how soil characteristics affected plant growth and why testing soil was important in agriculture and gardening.

Learning outcomes:

- ☐ Students identified and classified different types of soil based on their texture and water retention.
- ☐ They understood the significance of soil pH and how it impacted plant growth.
- ☐ They demonstrated how to test soil for organic content and its role in soil fertility.

Glimpse of the activity



Physics

Title: Bending Light and Exploring Refraction with Everyday Objects: Shine a flashlight or laser pointer through materials like glass, water, and oil to observe how light bends (refraction) at their boundaries. Compare the angles of the refracted rays and note how different materials affect the light's direction. Observe the refraction through an empty bulb ,beaker etc.

Learning outcomes:

1. Understand the concept of refraction of light and how it occurs.
2. Investigate how the speed and direction of light change when passing through different transparent materials.
3. Explore real-world examples of refraction in commonly found materials.

Glimpse of the activity



Biology

Title: "Ecosystem Engineers: Building a Mini-Ecosystem"

Description of Activity: Students will create a mini-ecosystem using a terrarium or aquarium. Students will design and build a self-sustaining ecosystem, learning about the interconnectedness of living organisms and the importance of conservation.

Learning Outcomes:

1. Gained Understanding of Ecosystems and Biodiversity: Students developed a comprehensive understanding of ecosystems and biodiversity by designing and building their mini-ecosystems.

2. Learned about Interdependence: By creating a self-sustaining ecosystem, students learned about the interdependence of living organisms and how they interact within their environment.

Glimpse of the activity:



Signature:

Teacher Incharge

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Class XI B : Homology of Haemoglobin protein in different species

Senior Secondary Department

Classes	XI B
Total No. of Students	44
Total No. of Submissions	40
Date	30.04.25
Mode	Offline (In person classroom activity)
Art Integration / Gamification / Experiential Learning	Experiential Learning
Skills Developed	Scientific knowledge Knowledge and understanding
Learning Objectives	Students will be able to understand importance of homology in studying evolutionary relationships.
Conducted by	Ms. Kamia Tanwar
Any Other	

Description of the activity:

Teacher have shown the method for finding and downloading the hemoglobin protein sequence from <https://www.ncbi.nlm.nih.gov>. Human and Cat hemoglobin protein sequence was BLAST to understand the percent homology between two species.

Learning outcomes:

Students understand the method of extracting any gene and protein sequence of any species from <https://www.ncbi.nlm.nih.gov>.

Student understand the importance of BLAST tool for establishing evolutionary relationship among various species.

Glimpse of the activity:

Alignment view Pairwise

1 sequences selected

[Download](#) [GenPept](#) [Graphics](#)

hemoglobin subunit alpha [Homo sapiens]

Sequence ID: [NP_000549.1](#) Length: 142 Number of Matches: 1
[See 59 more title\(s\)](#) [See all Identical Proteins\(IPG\)](#)

Range 1: 1 to 142 [GenPept](#) [Graphics](#)

Score	Expect	Method	Identities	Positives	Gaps
253 bits(646)	2e-93	Compositional matrix adjust.	121/142(85%)	131/142(92%)	0/142(0%)
Query 1	MVLSAADKSNVKACWGKIGSHAGEYGAEALERTFCSPPTTKTYFPHFDLSHGSAQVKAHG				60
Sbjct 1	MVLS ADK+NVKA WGK+G+HAGEYGAEALER F SPPTTKTYFPHFDLSHGSAQVK HG				60
Query 61	QKVADALTQAVAHMDDLPTAMSALSDLHAYKL RVPVNFKFLSHCLLVTLACHHPAEFTP				120
Sbjct 61	+KVADALT AVAH+DD+P A+SALSDLHA+KL RVPVNFK LSHCLLVTLA H PAEFTP				120
Query 121	AVHASLDKFFSAVSTVLTSKYR		142		
Sbjct 121	AVHASLDKF ++VSTVLTSKYR		142		

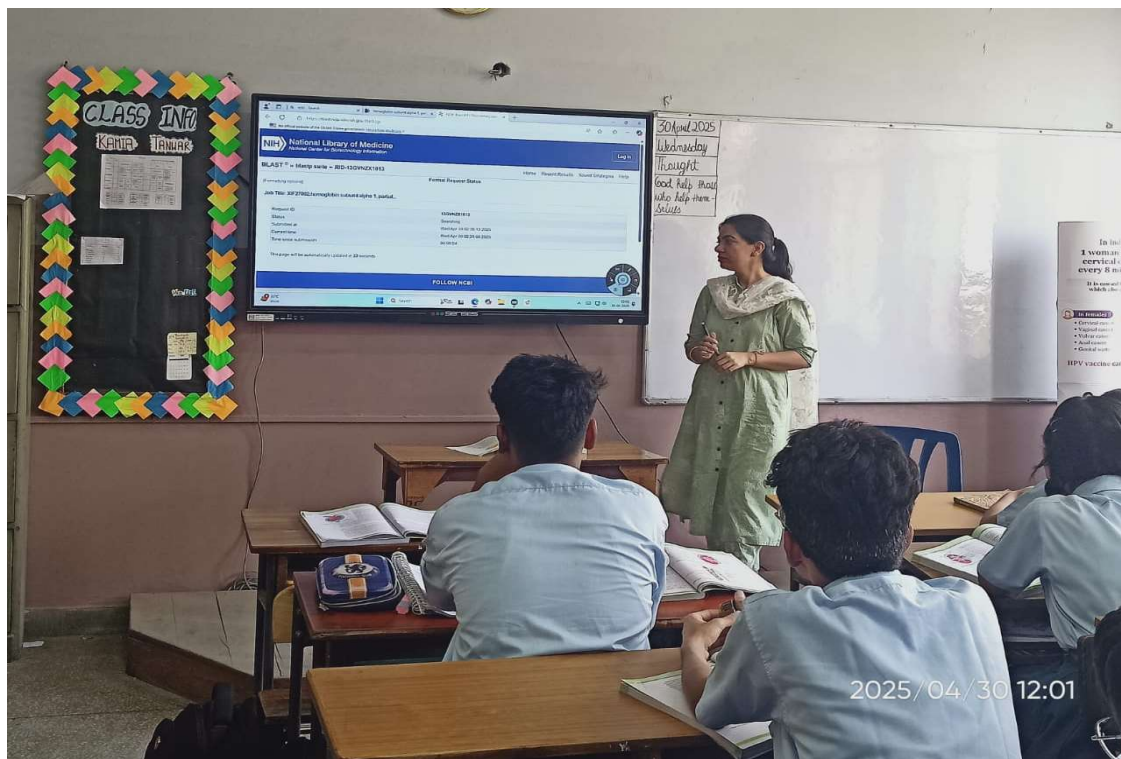
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Search

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30 April 2025
Wednesday
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Signature:

Teacher Incharge

Club Incharge

Principal

