



Club Newsline

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Primary Department
Pusa Road Campus

BUDDING SCIENTISTS

EDITORIAL



**IS SIMPLY THE WORD WE USE TO DESCRIBE A
METHOD OF ORGANISING OUR CURIOSITY
-TIM MINCHIN-**

To create a multi-dimensional learning environment for our students, we at Bal Bharati offer endless creative learning opportunities to our students through various club activities. The aim of the 'Budding Scientists' club is to popularise science and to develop scientific acumen in the students. The students are naturally fascinated by the wonders of Science and the carefully planned activities in this club allow them to explore and understand a few scientific facts and happenings. By observing, investigating and arriving at logical conclusions, the students delve deep into the ideas to gain a REAL EXPERIENCE! Learning how to think logically and observing a scientific process provide stimulating experience to children as they grow up, helping them plan, communicate, work creatively, solve problems and much more.

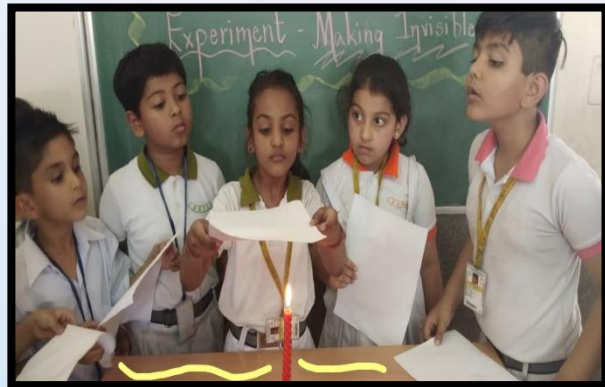
The students indulged themselves in the activities with great enthusiasm and we also had such a great time coming up with new ideas and performing the activity each time.

Club Masters
Pushpinder Kaur
Lipika Kalra



Making Invisible Ink

Through a fun-filled magical experiment conducted on 25.04.19, the students learnt how to make invisible ink using lemon juice and a heat source. The oxidation property of lemon juice was explained through this experiment. They explored that lemon juice is an organic substance that oxidizes and turns brown when heated.



Balloon Rocket Experiment

In the activity held on 25.07.19, the students explored the working of a rocket with the help of a simple experiment using materials like straw, balloon, string and cello tape. They tried their hands on the experiment after a demonstration by the teacher and enjoyed it.



Making of Gas

In the activity conducted on 29.8.19 the students learnt how a chemical reaction between baking soda and vinegar leads to production of gas. In the simple experiment demonstrated by the club masters, the two ingredients were mixed to produce carbon-dioxide which was used to inflate a balloon. The fun-filled experiment was a great learning experience for all the students.



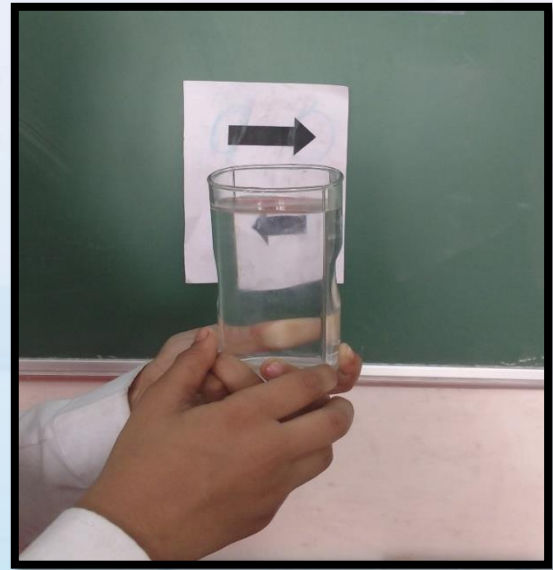
Colour-changing Milk

Club activity 'Colour-changing Milk' was organised for the students on 26.9.19. A demonstration showing the reaction of milk with liquid soap was given to the students. To highlight the movement of milk molecules different food colours were added to the solution. Students keenly observed and inferred that as soon as soap was added to milk, food colour present in milk appeared to be dancing and moving on its own. This is due to the reaction of the soap with the fat particles present in milk. The students were amused to see the colours mixing and changing on their own and thoroughly enjoyed the activity.



Fun with Water Lens

The students learnt to make a lens out of a glass of water in an easy experiment conducted on 24.10.19. A paper with a horizontal arrow drawn on it was put behind a glass. The distance between the glass and the arrow card was adjusted to see the image clearly through the empty glass. The glass was slowly filled with water and when the arrow was seen through the glass, the image of the arrow appeared reversed. This happened because the water in the glass behaved as a convex lens. Through this experiment the teacher explained the concept of refraction which is the bending of light as it passes from one transparent medium into another.



There's Air in There!

Through an experiment conducted on 28.11.19 the students observed an important property of air that air exerts pressure. It was shown that how putting an inflated balloon over the top of the bottle pushes the water out of the bottle through a straw. Attaching the inflated balloon increases the air pressure in the bottle. As it deflates, the air presses down on the water, pushing it through the straw. The teacher demonstrated and explained the experiment to the students. The students then tried doing the experiment under the teacher's guidance. The related video was also shown to the children.

Floating and Sinking Orange

A fun-filled science experiment on density was done by the students on 30.01.2020 in which they observed that an orange with the peel floats in water because the peel is porous and filled with tiny air pockets which makes the orange to be less dense than the water and cause it to float. On the other hand, when the peel of the orange is removed, the same orange sinks in water as it becomes lighter with the removal of tiny air pockets. The students were able to understand that the orange without the peel is denser than water and it sinks.





Magnetic Fishing Game

In the activity held on 20.02.20 the students explored the principle of magnetism and how magnets attract metals.

They made a fishing rod with the help of a stick and a string with a magnet attached at its end. They made fishes using colourful paper and placed a metal paper clip inside the fish. The students cheered with joy each time the magnetic rod attracted a fish .

PARENTS' DIARY

My ward Rishaan was really mesmerized by the 'Colour-changing Milk Experiment' performed in the class. It enabled him to observe the reaction of liquid soap with milk in a magical way. He was thrilled to observe the dancing and mixing of colours together. He repeated the experiment at home and explained to us the scientific principle behind the experiment.

Priyanka Malhotra

M/o Rishaan Malhotra III H

Balloon Rocket Experiment helped my ward to understand the mechanism of air pressure in a fun way. He still enjoys doing the activity with his cousins at home. Activities like these really help to stimulate the curiosity in children and they encourage them to explore things around them.

Venni Suneja

M/o Chaitanya Suneja III F

Magnetic Fish Game activity was a great learning with lots of fun! Vedant enjoyed performing the activity and carried it out at home as well. He has now developed curiosity to perform activities that involves learning by doing techniques.

Patrika Goel

M/o Vedant Goel II D