

Report on Mathematics Fair: Live Mathematics through Games and Activities

Introduction:

This report summarizes the successful mathematics fair held at SARVODAYA (CO-ED) VIDYALAYA NO.1 SHAKTI NAGAR, on August 5, 2023. The fair was conducted by interns (teachers) from the Department of M.Sc. Math Education, CIC, Delhi University. The primary objective of the fair was to introduce innovative and engaging methods of teaching mathematics, emphasizing joyful and experiential learning. Various games and activities were employed to foster a deeper understanding of mathematical concepts among the students, while promoting a positive and enjoyable learning environment.

Workshop Highlights:

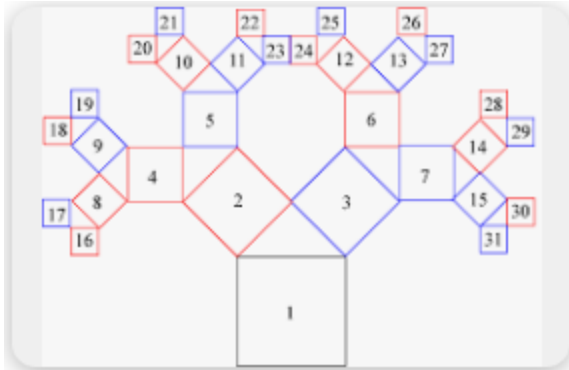
1. Infinity Loop Game with Morality: This game served as a platform to teach mathematical concepts while instilling moral values. It provided students with a unique opportunity to apply mathematical knowledge to real-life situations, encouraging critical thinking and ethical reasoning.



2. Trigonometry Activity Kit: Through this activity kit, students were able to visualize and explore trigonometric principles. The hands-on approach enhanced their understanding of trigonometry, making it more accessible and enjoyable.

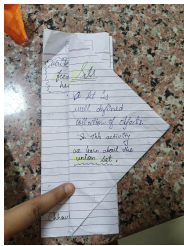


3. Pythagoras Tree and Ramanujan Magical Square: These geometric activities stimulated students' creativity and problem-solving skills. They not only appreciated the beauty of mathematics but also gained insights into the interconnectedness of mathematical concepts.

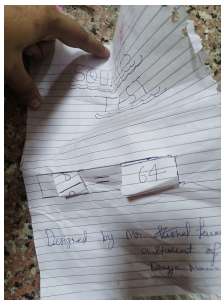


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MM-2	DD+2	YY+2	yy-2
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4. Set-Based Activity: The set-based activity facilitated an intuitive understanding of set theory, enabling students to grasp abstract mathematical concepts with ease.



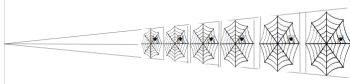
5. Square and Square Root-Based Activity: Through this activity, students developed a concrete understanding of square numbers and square roots, making arithmetic more meaningful and practical.



6. Magnetic Pad Board for Learning Relations and Functions: The magnetic pad board provided an interactive and dynamic learning experience, enabling students to explore relations and functions visually.



7. Illusion Activity: This activity challenged students' perceptions and cognitive abilities, demonstrating the relevance of mathematics in everyday life and enriching their analytical skills.



8. Magnetic Cube Games for Understanding Area and Perimeter: The magnetic cube games allowed students to physically manipulate shapes, promoting a deeper comprehension of area and perimeter concepts.



9. Nail Board Game on Different Shapes and Figures: Students engaged in hands-on learning through the nail board game, enhancing their spatial awareness and geometric intuition.



10. Mathematics Story Book: The inclusion of a mathematics-themed storybook fostered a love for reading while integrating mathematical concepts into storytelling.

11. Straw Activities for Creating Different Mathematical Shapes: This activity encouraged creativity and imagination, inspiring students to construct various mathematical shapes using simple materials.



12. Math Shapes Stapu Game and Tum Yum Games: These games made learning mathematics fun and interactive, helping students internalize calculations and practical applications of mathematical concepts.



Impact and Feedback:

The workshop received overwhelmingly positive feedback from both students and teachers. The students thoroughly enjoyed the engaging activities, and the teachers appreciated the innovative teaching methods employed during the session. They expressed a desire for future workshops that continue to promote joy, creativity, and exploration in mathematics education.

Conclusion:

The mathematics workshop at SKV School, Shakti Nagar, was a resounding success, thanks to the dedication and efforts of the CIC, Delhi University intern teachers team. The use of games and activities facilitated a joyful and interactive learning experience, making mathematics more approachable and enjoyable for the students. By embracing creativity, innovation, and exploration, the workshop exemplified the principles of Bloom's Taxonomy, nurturing a deeper understanding of mathematical concepts. The positive impact of this workshop is evident in the students' enthusiasm for mathematics, and we hope to continue fostering such excitement for learning in future endeavors.

We extend our sincere gratitude to the school, teachers, and students for their warm welcome and active participation. We look forward to future collaborations, aiming to inspire and empower young minds through meaningful and engaging mathematics education.

Sincerely,

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