



# NATIONAL PUBLIC SCHOOL

Kengeri, Bengaluru

## Report on Smart Goal Activity

Subject: Mathematics

Grade-IV

### Topic- FACTORS AND MULTIPLES

“Mathematics is the most beautiful and powerful creation of the human spirit.”

Descriptor: To initiating innovations in the school.

Actionable: Expand the perspective of the teachers to implement innovative pedagogies



Mathematics is a way of thinking and gives an insight to the human mind and plays a vital role in daily life activities. Learning by doing, hands on experience with the materials encourage students in application-based learning.

To make the subject more innovative and interesting, “**Smart Goal Activity**” was conducted in Grade IV for the topic “Factors And Multiples” from 21st to 23rd November 2023.

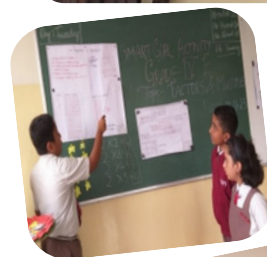
The objective of the **SMART GOAL** is to set specific, measurable, achievable, relevant, and time-bound for the topic chosen. These parameters help the teachers and students to create, plan and execute the concepts within the time-frame.

To reinforce the quality of learning in children, this activity was transformed into flipped classroom learning where in the students are given an opportunity to explore, understand and exhibit the concepts through hands-on activities, questionnaire, games, quizzes, and group-discussions. The aim of this activity was to enhance observation, critical thinking, problem-solving and analytical skills among children.

The class was divided into 5 groups and 5 students in each group. Each group was given a topic to present according to their ideas and innovations.

- Group A- Factors and multiples
- Group B - Divisibility test of 2 and 3
- Group C- Divisibility test of 5 and 10
- Group D - Prime numbers
- Group E - Composite numbers

### Factors & Multiples



# Prime & Composite numbers



Each group from each section demonstrated their topics through many activities like skits, role-play, props and charts, fun-games using flash cards, songs, quiz-time, and riddles. These activities help the students to acquire foundational knowledge on their own, dive deeper into complex topics with their peers, seek guidance from the teacher, face challenges, and engage in exciting discussions that broaden their perspectives. This activity gave a room and provided an opportunity for every student to involve and interact with the peers, put-forth their ideas and viewpoints.

Students were able to correlate the concepts at different fields and apply them in real life situations like factors and multiples in arrangement of rows and columns; number pattern, Divisibility test in shopping, prime and composite numbers in games such as cricket and kabaddi. Hence the classroom had been transformed into a hub of active learning, dynamic discussions, collaborative projects, and hands on activities.



## Divisibility Test



**Learning outcome:** Students will be able to explore engage, explain, elaborate, and evaluate (5 E's) the concept Multiples and Factors through activities.

Collaborative and peer learning will take place. Communication skills are improved while presenting the concept. Cultivates critical thinking, problem solving skills and their creativity are enhanced.

