PROJECT / LESSON PLAN PROPOSAL

FRACTION KI RANG-BIRANGI DUNIYA

Learning Beyond Textbooks | Art-Integrated Pedagogy | Mathematics | Preparatory Stage

Prepared by :- Saurabh Kumar Srivastava (PRT) • Vikash Kumar (TGT-AE)

Proposal Write-up -

Sl. No. Particulars	Project / Lesson Plan Write-up
1. Name of Teachers	Saurabh Kumar Srivastava (PRT) and Vikash Kumar (TGT-AE).
2. Name of Kendriya Vidyalaya	Kendriya Vidyalaya Tamenglong (Tinsukia Region).
3. Stage	Preparatory Stage.
4. Class	Preparatory Stage learners.(Class 3 to 5)
5. Subject/Learning Area	Mathematics.
6. Theme/Area	Art-Integrated Pedagogy – Fraction Ki Rang-Birangi Duniya.
7. Title of the Practice	Learning Beyond Textbooks: Exploring Fractions through Art, Craft, Music, Games and Creativity.
8. Educational Context/Need	Fractions are abstract when introduced only through numerical symbols. Children understand them better through concrete experiences such as folding, cutting, colouring, sharing and creating. This project connects fractions with everyday life, traditional art, food, music and games.
9. Objectives	To develop conceptual understanding of fractions, identify equal parts, represent fractions pictorially, compare fractions, explore equivalent fractions and encourage creativity through experiential learning.
10. Curricular Goals	Develop mathematical understanding, representation, communication, problem-solving, creative expression and collaborative learning through meaningful activities.
11. Mapping of Competencies	Mathematical thinking, logical reasoning, communication, creative expression, spatial awareness, collaboration, participation and problem-solving.
12. Learning Outcomes	Learners will identify a whole and its equal parts, represent halves, thirds and quarters, recognise fractions in daily life, compare simple fractions, explore equivalent fractions and explain mathematical concepts through their artwork.
13. Pedagogical Process/Strategies	The teaching-learning process follows six steps: Connect, Explore, Represent, Create, Apply, and Explain and Reflect. Activities include paper folding, fraction strips, fraction flowers, rangoli designs, pizza art, fraction fruit, puppetry, rhythm clapping and movement games.
14. Student Engagement	Students participate as hands-on makers, peer explainers and creative presenters. Individual exploration, pair work, group activities and classroom presentations ensure active participation.

15. Resources/TLMs Used	Coloured papers, paper strips, circles, cardboard, scissors, glue, crayons, sketch pens, fraction charts, handmade fraction boards, fraction wheels, puppets, dice, fruits and locally available materials.
16. Assessment	Diagnostic questioning, observation of activities, oral responses, peer explanation, practical demonstrations and interactive fraction games. Exit assessments include representing 3/4 and matching pictures with fraction symbols.
17. Impact/Outcomes	The approach promotes conceptual clarity, mathematical vocabulary, active participation, creativity, confidence and inclusive learning. Learners demonstrate understanding through speaking, drawing, arranging and making models.
18. Follow-up Activity	Provide differentiated tasks: additional practice with halves and quarters for learners needing support, fraction representation for learners at the expected level, and fraction puzzles and equivalent-fraction challenges for advanced learners.
19. Teacher Reflection	Evaluate whether learners understand equal partitioning, identify effective teaching materials, observe participation and use learners' responses to plan remedial and enrichment activities.
20. Scope for Replication	This low-cost, inclusive approach can be replicated in other schools using locally available materials, traditional art forms, food-sharing practices, songs and games. It can also be extended to shapes, measurement, symmetry, patterns and data handling.

Concluding Statement :-

Art is not decoration here, it is a learning tool. Students create, compare, explain and justify fractions. Through the integration of art and mathematics, learning moves beyond textbooks and becomes joyful, meaningful, experiential and lifelong.

"When Art Meets Mathematics, Every Fraction Tells a Colourful Story !"







(Anurag Shaswat)

Principal i/c

Kendriya Vidyalaya Tamenglong

प्रभारी प्राचार्य/Principal Inc
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