

# Elementary Mathematics

60 Inservice Points

Component No.1 009 002

## **General Objective**

Increase the awareness and understanding of mathematics content and teaching elementary mathematics.

## **Specific Objectives**

Participants will

1. Review and discuss the components of the Model Curriculum.
2. Review and discuss the Goals and Standards of the National Council of Teachers of Mathematics
3. Understand and apply estimation strategies.
4. Apply the concepts of patterning to the real world.
5. Identify the developmental stages in learning the concept of number.
6. Understand and apply activities for developing concept of number.
7. Apply concepts of nonstandard measure for length, area, volume, mass, and quantity to real world concepts.
8. Make and interpret graphs.
9. Apply math concepts as they relate to other areas of the curriculum.
10. Develop integrated units with a mathematical focus.
11. Use storyboards to solve problems.
12. Develop concepts of spatial sense.
13. Learn how to provide problem solving activities that help children enjoy mathematics while building their skill and confidence.
14. Use strategies for incorporating writing in mathematics.
15. Integrate the use of calculators into mathematics instruction.
16. Use concrete materials to develop mathematical concepts.
17. Develop activities in geometry.
18. Develop activities dealing with logical thinking.
19. Develop activities in measurement.
20. Develop activities in patterns and functions.
21. Develop activities in probability.
22. Develop activities in statistics.
23. Use manipulatives for problem solving.
24. Incorporate writing activities into the mathematics.
25. Develop alternative assessment activities for mathematics.

## **Activities**

1. Attend workshops
2. Participate in activities and discussions.
3. Develop materials for classroom use.

## **Evaluation**

1. Share activities with others.
2. Submit plans for implementing workshop activities in the classroom.
3. Complete an evaluation form.

