## MATHEMATICS LABORATORY

Amol Parab
Homi Bhabha Centre for
Science Education,TIFR


## What is a mathematics laboratory?

The Mathematics Laboratory is a place, rich in manipulative material, to which children have ready access to handle them, perform mathematical experiments, play mathematical games, solve mathematical puzzles and become involved in other activities.

## What is the purpose of a mathematics

 laboratory?To provide readily accessible rich manipulative materials.

To develop physical involvement in order to add new ideas to their cognitive structure.

To make children experience with real - world embodiments of mathematical ideas.

To emphasis on learning by doing.

## What is the purpose of a mathematics laboratory?

To provide children with opportunities to discover and understand mathematical concept through their active involvement in solving problems

To make children to think, to look for patterns and ask questions.

To develop an attitude of inquiry.

## What are manipulative materials?

Manipulative material are objects or things that the pupil is "able to feel, touch, handle, and move. They may be real objects which have social application in our everyday affairs, or they may be objects which are used to represent an idea"

# Guidelines for Mathematics Laboratory 

## Design and general layout

Dimension - $40 \times 30$ feet room
Accomodation for 35 to 40 students

## Physical infrastructure and materials

Enough light and air Furniture -desks, chairs blackboard, display board
Essential equipment like OHP, LCD
Raw materials like card board, mount board,
Different types of papers Writing materials

## Maintainance of Lab

Time table -proper allocation of period Record of materials Record of visitors Lab manual
Suggestion Note-book Technical report
"What I hear, I forget, What I see, I remember What I do, I understand"

## THANK YOU

