MATHEMATICS LABORATORY

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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 x 30 feet room
Accommodation 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