

MATHEMATICS



NATURE OF MATHEMATICS



1. MATHEMATICS IS A SCIENCE OF DISCOVERY

Mathematics give an easy and early opportunity to make independent discoveries. It is the discovery of relationships and the expression of those relationships in symbolic form.

2. MATHEMATICS IS AN INTELLECTUAL GAME

Mathematics is mainly a matter of puzzles, paradoxes, and problem-solving.



3. MATHEMATICS IS A TOOL SUBJECT



Mathematics has its integrity, its beauty, its structure and many other features that relate to Mathematics as an end in itself.

4. MATHEMATICS INVOLVES AN INTUITIVE METHOD

The first step in the learning of any mathematical subject is the development of Intuition. This must come before rules are stated or formal operations are introduced





4. MATHEMATICS HAS ITS OWN LANGUAGE AND SYMBOLS

The language for communication of mathematical ideas is largely in terms of symbols and words which everybody cannot understand.

5. MATHEMATICS IS AN ABSTRACT SCIENCE



Mathematical concepts are abstract in the sense that they cannot be seen. That they cannot be seen or felt in the physical world.



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6. MATHEMATICS IS LOGIC



Logic is an important factor in mathematics; it governs the pattern of deductive proof through which mathematics is developed.

7. MATHEMATICS DEALS WITH ART OF DRAWING CONCLUSIONS

In mathematics the conclusions are certain and definite. Therefore the learner can Check the correct solutions.

NEEDS AND SIGNIFICANCE OF LEARNING MATHEMATICS



- Mathematics learning helps to apply mathematical concepts and theorems to new situations.
- Mathematics provides a clear understanding of laws of nature.
- Mathematics helps in clear understanding of the culture and development of our civilization.
- Mathematics learning helps to think alternative methods of solving problems
- Mathematics provides a frame work for solving problems
- Mathematics is a powerful tool in the hands of the learners
- Mathematics learning helps in a better understanding of the world around us

Thank You

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