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# STUDENTS BEHAVIOUR TOWARDS MATHEMATICAL APPLICATIONS

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#### Abstract:

Mathematics is present everywhere in our surroundings. It is an important part of our life. We can't imagine our life without mathematics. It starts in our life before our birth. In case of human being, it takes nine months. So, mathematics is there for us when we are not physically present in the world. So, mathematics has wide applications in our life. It is not only used for technical purpose but also found in nature. Like shape of many fruits, shape of many trees etc. There are many other areas where we use mathematics. Like in Physics, chemistry etc. We use it to drive many relations. It is used by banks, farmers, house-wives, shopkeepers, traders, drivers etc. We know that everything depends on time and we are not able to know time without mathematics. So, on seeing the importance of mathematics it is necessary to all of us to learn mathematics. We took out a survey with the help of questions. There are many questions for different persons or we can say for different categories/field etc. Our aim is to raise curiosity of children and other also towards math.

Keywords: algebra, geometry, arithmetic.

#### Introduction

In our daily life what the role we play like as a doctor, as a musician, as magician, as a carpenter etc. we need mathematics. Mathematics can be seen in our relations also. If we consider an example of mother-child relation there is also a mathematical relationship. As explain below —

A mother always tends to her child if for given epsilon >0,there exist delta >0 such that distance between mother and child remain less then delta. It is impossible to us to explain  $\mathbf{of}$ application mathematics in field. There is a fear in our mind for mathematics which is created by us or by others. This fear act as a wall between us and mathematics. Due to which many people don't take interest in it.

Review  $\mathbf{of}$ literature Trends International Mathematics and Science study (TIMSS) takes survey in every four years to know the result of mathematics and science in education from school level to university since 1995. Many countries involved in it. Result of these surveys are used by some mathematics and science teacher. This type of survey has taken in different years. For example, a survey was organized in 2005- 2007 at some selected schools. Because they check the interest of students in different subject.Mathematics found at lowest position. of difficult In case subject, mathematics ison second position for students[1]. Salman Bin Sami Khan and Reema Salman in their research took a short survey.

In this, they ask some questions and on the basis of there response they

conclude that the students and people have to guide and trained so that they can get jobs easily and can take part also[2].Two competition different approaches to the combination of writing and mathematics were given by Wilcox and Monroe (2011) in article "Integrating Writing and Mathematics". First one is writing with revision and second one is writing without revision. These two approaches are followed by O'Connor, Mc Daniel and Jason Carr in their research[3].

# The connection of people's and pupils to mathematics (survey)

As we know that to know the interest of students and people in mathematics, we use some methodology to draw our results.

Here the methodology adopt by me is a short survey. In which I asked some questions to students. The main aim of **Outcomes of the 1**<sup>st</sup>**question:** - In class 12<sup>th</sup> out of 86 students there are only 13 students who like mathematics

Rest of the students give no response. First question is a general question. Then I ask for particular topic. So

my survey was to know the connection of students to mathematics.

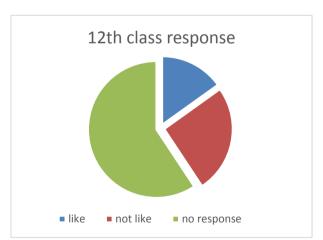
Some of the questions of my survey are given below—

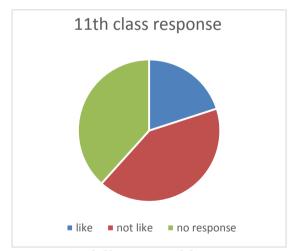
- 1) How many students like mathematics?
- 2) Which topic/ topics did they feel easy?
- 3) Which topic did they feel typical?
- 4) Are they afraid of mathematics?
- 5) If so, then how did they study mathematics till secondary examination?
- 6) Where they use mathematics?

I conducted my survey in a government school i.e. Govt. Sr. Sec. School, Malar.

I took a questionnaire survey of two different classes in this school. I choose 11<sup>th</sup> and 12<sup>th</sup> class. There are 86 students in 12<sup>th</sup> class 60 students in 11<sup>th</sup> class. So total students are 146.

22 students don't like mathematics. Other students give no response. In class 11<sup>th</sup> out of 60 students there are only 12 students who like





The outcomes of 2<sup>nd</sup> question are given in following table

ne outcomes of <b>a</b> question are <b>5</b> 17	decomes of a decomon are given in fone wing tast	
Topics	Number of	
	students	
statistics	33	
Probability	57	
Construction of circle and triangle	60	
Linear programming	2	
Pair of linear equation in two	24	

variable	
Coordinate geometry	22
no response	4

Table 1 - outcomes of easy topics to 12<sup>th</sup> class students

Topics	Number of students
Probability (easy)	22
Statistics	28
Construction of circle and	11
triangle	
Pythagoras theorem	19

Table 2 – outcomes of easy topics for 11th class students

#### In the answer of the third question

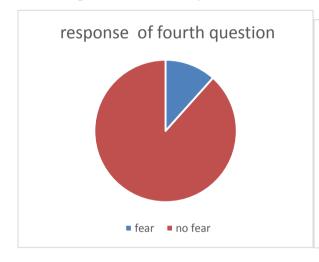
12<sup>th</sup> class students said that integration and trigonometry are very typical to them. In case of trigonometry, they said they can't remember the formulas of trigonometry.

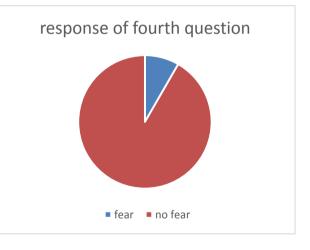
11<sup>th</sup> class students said that permutations and combination, derivatives are typical to them till now. All mathematics students have a common problem that they feel it hard

because they had Hindi medium mathematics till 10<sup>th</sup> class but now, they have to face an English medium mathematics. In this case they have difficulty to understand number system also.

#### In answer to the 4th question

there was only 10 students in 12<sup>th</sup> class and 5 students in 11<sup>th</sup>class who afraid of mathematics.





In answerto the 5<sup>th</sup>question they replied that they replied that they used to practice only chapter to pass the examination.

## In answer to the 6th question

12th class students said

- 1. They use mathematics while purchasing items .
- 2. To count anything.
- 3. They said shape of there room is cuboid which is a mathematical term.
- 4. 11th class students said

- 5. They see mathematics when teacher take their attendance.
- 6. When they go to kiryana store they use mathematics.
- 7. 30 students said that they use mathematics in transport to know distance.
- 8. To buy tickets during their journey
- 9. To calculate percentage.
- 10. To know are when they construct houses

11. Some commerce students said they use mathematics in accountancy.

#### Conclusion

In closing, we can state that it is important to teach students in proper way. such that they feel no need to cram the things and can easily understand the things. They have to follow do little do good. Students must be trained for technical knowledge. Because it help them to build up their carrier. In the field of mathematics to improve our knowledge it is necessary to accept and face the challenges and trying to see and feel mathematics around ourselves so that it becomes interesting to us.

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