

A Study on How to Improve the Condition of Mathematics For Teachers And Students.

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ABSTRACT: Mathematics is a subject that every student has to study at one time or another in his student's life. Some love it but if we're being honest, most people hate studying mathematics. The importance of mathematics for students has never been more prominent. Mathematics is one of those subjects which you can easily spend hours studying but end up none the wiser. However much you have studied, if you cannot solve the problem on day of the test, you are lost. Thankfully, there are some techniques for studying mathematics that we can do regardless of our level. In this paper we have tried to find out some ways in the topic -How to improve the condition of Mathematics for teachers and students.

KEYWORDS: Mathematics, Techniques, Memorization, Appropriately, Expectations.

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I. INTRODUCTION

There is nothing that is universally liked by every human being. Math is no exception. Math teachers often do not inspire their students with an appreciation for the beauty of mathematics, instead teaching by rote memorization. Many people do not believe mathematics is essential to living a modern life and resent being forced to study an abstract science. Some students feel like math is a foreign language in which they can't orient themselves since math is cumulative and they forgot something they learned a while ago and now becomes totally lost. When students fail to progress in a math class they may feel stupid and avoid math as much as possible in the future. In the background of Bangladesh, most of the students do not like to practice mathematics. Besides, all the students want to take higher math as their main subjects. But they do not practice as much as required as higher math.

Mathematics teachers should follow the following steps:

Firstly to make a good result in mathematics teachers should make his/her class most fruitful. If a teacher cannot make his class interesting it is not possible to make a good result. For making a good class a teacher should follow the following steps:

1. Following the rules of grammar:

Teachers should follow the rules of grammar. When we write in a math class, we are expected to use correct grammar and spelling. Our writing should be clear and professional. We should not use any irregular abbreviations or shorthand forms which do not conform to understand.

2. Symbols and words.

It is important to use words and symbols appropriately. Part of being able to write mathematics well is knowing when to use symbols and knowing when to use words. We should not use mathematical symbols when we really mean something else.

3. Using pictures in mathematics

A picture can really be worth a thousand words. We strongly encourage to use visual arguments in our mathematical class. However, if you do include a picture, a diagram, a graph, or some other visual mathematical representation, we should make sure that you fully explain about the figure.

4. Finish class with a summary

Everyone can get lost in the class period, and it's easy to lose track of time until the bell rings and class is over. The final seven minutes might be the most critical in making sure that students have understood the day's learning objective. You can use this time to accomplish three very important things:

- A quick formative assessment to determine how much was learned, such as students self-rating their comfort with the concept on a 1-5 scale
- Reviewing the objective for the class period and brief discussion as to where the lesson will go next time
- Previewing the homework together to avoid any confusion.

5. Miscellaneous comments.

Here there are a couple of other points.....

1. We should not start a sentence with a formula. While it may be grammatically correct, it looks strange.
2. We should use mathematical notation correctly. As we learn to write more complicated formulas, it is all too easy to leave out symbols from formulas. We should learn how to use symbols properly.
3. Use language precisely and correctly. Make sure that the words you use really mean what you think they mean. Mathematics requires very precise use of language.

II. STUDENT'S ACTIVITIES

Students should be more attentive. Our points for the students are as follows:

1. Practice, Practice & More Practice

It is impossible to study maths properly by just reading and listening. To study maths we have to roll up our sleeves and actually solve some problems. **The more you practice answering maths problems, the better.** Each problem has its own characteristics and it's important to have solved it in numerous ways before tackling the exam. There is no escaping this reality, to do well in a Maths exam students need to have solved a LOT of mathematical problems beforehand.

2. Read Ahead To Stay Ahead:

If you want to lessen your in-class workload or the time you spend on homework, use your free time after school or on the weekends to read ahead to the chapters and concepts that will be covered the next time you are in class.

3. Review Errors

When you're practicing with these problems, it's important to **work through the process for each solution.** If you have made any mistakes, you should review them and understand where your problem-solving skills let you down. Understanding how you approached the problem and where you went wrong is a great way of becoming stronger and avoiding the same mistakes in the future.

3. Master the Key Concepts:

Do not try to memorise the processes. This is counter-productive. It is much better and rewarding in the long-run to focus on understanding the process and logic that is involved. This will help you understand how you should approach such problems in the future.

Remember that Maths is a **sequential subject** so it's important to have a firm understanding of the key concepts that underpin a mathematical topic before moving on to work on other, more complex solutions which are based on understanding the basics.

4. Create a Distraction Free Study Environment:

Mathematics is a subject that requires more **concentration** than any other. A proper study environment and a **distraction free area** could be the determining factor when solving complex equations or problems in geometry, algebra or trigonometry!

Studying with music can help create a relaxing atmosphere and stimulate the flow of information. Having suitable background music can foster an environment of maximum concentration.

5. Create a Mathematical Dictionary

Mathematics has specific terminology with a lot of **vocabulary.** We suggest to create notes. We should include their meanings, some key points and even some sample answers so you can consult them at any time and recap.

6. Apply Maths to Real World Problems

As much as possible, try to apply real-world problems when approaching maths. Maths can be very abstract sometimes so looking for a practical application can help change your perspective and assimilate ideas differently.

Probability, for example, can be used in everyday life to predict the outcome of something happening and determine whether you want to take a risk such as if you should buy a lottery ticket or gamble.

7. Talk To Yourself:

When you are reviewing problems for an exam, try to explain out loud what strategy and methods you used to get your solutions. These verbal declarations will come in handy during a test when you need to recall the steps you should take to find a solution. Get additional practice by trying this tactic with a friend.

III. CONCLUSION

The world is changing, society's expectations are changing, and our students are changing. It follows that the mathematics needed, its importance, and methods for teaching it are changing as well. As *Before its Too Late* states, "It is abundantly clear from the evidence clearly at hand that we are not doing the job we should."

But the fact is that, it is not possible to do better in mathematics without more practicing. Enough practice is required. But our students are not agree with this statement. If they practice mathematics at least 1 hour in a day at the end of the year they can do better in mathematics. Even though they don't do. Whereas they don't like mathematics at all. Some students has allergies in mathematics.

Besides we (mathematics teachers) should be more careful about our subject. We should fill proud thinking that we are the teachers of MATHEMATICS. We should practice more before conducting a class. We should think about the demand of the students.

REFERENCES

- [1]. <https://www.aliexpress.com/item>
- [2]. <https://www.jacobs-university.de/study/undergraduate/programs/mathematics>
- [3]. <https://search.visymo.com>
- [4]. <https://bd.seekweb.com>
- [5]. <https://bd.gigapromo.com>