

## IMPROVING MATHEMATICAL SKILLS IN BASIC EDUCATION

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Mathematics is a fundamental subject that is crucial for intellectual and practical development. It provides essential skills for various fields such as science, engineering, technology, and computer science. However, many students struggle with mathematics due to various reasons such as a lack of interest, inadequate exposure, and ineffective teaching methods. As a result, there is a need to improve the mathematical skills of students in basic education to ensure their success in their future endeavors.

One of the crucial steps in improving mathematical skills is creating an environment that fosters curiosity, creativity, and critical thinking. Teachers should encourage students to ask questions, experiment, and explore different techniques to solve mathematical problems. Teachers should also provide students with challenging tasks that require them to use mathematical concepts in real-life situations. By doing this, students will develop an interest in mathematics, and they will start to see its relevance and importance in their daily lives.

Another essential step in improving mathematical skills is the use of modern technology in teaching. The use of interactive whiteboards, mathematical software, and online resources can help students visualize and conceptualize mathematical concepts more effectively. This approach will also help students to solve problems more efficiently, accurately, and independently.

Teacher training and development programs are also necessary to ensure that educators have the necessary skills and knowledge to teach mathematics effectively. Professional development programs should focus on equipping teachers with contemporary teaching methods, modern technological tools, and various assessment methods. This program encourages teachers to become proficient and confident in their mathematical skills, which will, in turn, benefit the students they teach.

Furthermore, enhancing the mathematical skills of students would require a comprehensive and systematic curriculum. The curriculum should provide in-depth and relevant content, aligned with national and international standards. A well-designed curriculum will ensure that students receive adequate instruction in fundamental mathematical concepts such as algebra, geometry, trigonometry, and calculus.

Improving the mathematical skills of students in basic education is vital for their future success. It requires creating an environment that fosters curiosity and critical thinking, using modern technology, providing professional development opportunities for teachers, and implementing an efficient and comprehensive curriculum. These steps will equip students with the necessary skills to thrive in various industries that rely heavily on mathematics, ultimately benefiting them, their future careers, and society.

#### *References:*

#### RECOMMENDATIONS FOR IMPROVING MATH SKILLS

<https://www.education.udel.edu/wp-content/uploads/2013/01/MathDifficulties.pdf>

#### How to Improve Math Skills

<https://www.marlborough.org/news/~board/health-and-wellness/post/helpful-strategies-to-improve-math-skills-for-high-school-students>