



## INNOVATIVE APPROACH TO ORGANIZING ELEMENTARY SCHOOL MATHEMATICS CLASSES

Po'lotova Nigora Nayim qizi

Asia International University Master of Stage 1

### **Abstract:**

Mathematics education plays a crucial role in shaping the future of students. Traditional methods of teaching mathematics often fail to engage young learners and hinder their understanding of this important subject. However, an innovative approach to organizing elementary school mathematics classes can revolutionize the way children learn and comprehend mathematical concepts. By employing various strategies and techniques, teachers can create a stimulating environment that promotes active learning and deep understanding.

**Keywords:** techniques, approaches, innovative ways, technology, effects, well-qualified teachers

### **Introduction:**

The function of training presently is undeniable. It is the using pressure that strikes society from the country of inertia and sluggish boom to the speedy motion of growth and improvement in financial and human resources. Education is an difficulty of countrywide protection and the first line of protection in opposition to the risks and hazards of globalization.

It is also the primary device for the funding of human resources, which is now the major foundation for financial development and globalization. Science and information are the essential groundwork for any development, so they must be a precedence for all nations in order to cope with the big technological improvement that the globe presently witnesses.

Mathematics is an essential phase of science; in fact, it is the core element of science. If we apprehend its significance and the vital function of its functions in life, we can use it in the proper approaches that will make a contribution to the scientific and technical development of our nation. However, the reality that the full-size majority of college students think about it a tough difficulty to study makes it pressing for colleges to make the most all assets and techniques to assist college students apprehend it.

Unfortunately, the findings of the modern day Meitzav checks 1 in the colleges in which the lookup will be held, point out low achievements in arithmetic and in the





sciences (around 40%) each in evaluation with the effects at the degree of the Arab region as a minority populace and at the countrywide level.

In addition, the findings exhibit that in the questionnaire which examined the function of college students toward the two subjects, about 80% of the scholars in Grade eight gave greater significance to the find out about of the two subjects, though solely an common of 55% suggested that they loved gaining knowledge of sciences and mathematics.

It need to be remembered that solely a small share of the scholars who persisted their research in excessive colleges are reading in the science track, and most of them learn about arithmetic at the 3-unit level. All countries ought to maintain up with the big non-stop improvement in all fields, and “\*a+n choice system or approach of instructing has to be adopted in this speedy creating world, the place expertise explosion has been taking vicinity each day in each sphere of life.

It is unreasonable to count on that spoken or written phrases on my own can deliver the quantity of applicable data to the learner” specially in instructing mathematics.

It is essential to observe to the reality that there are lots of modern-day educating techniques that hire technological know-how such as Smart Classrooms, Flipped Classrooms, Virtual Classrooms, Blended Learning, and cell learning.

However, the cutting-edge state of affairs of the faculties that imposes a variety of restrictions, in particular in phrases of resources, makes it tough to hire them in schools. Thus, in this study, solely the relevant strategies and techniques are to be discussed, and the query right here is:

What are the revolutionary approaches to educate mathematics that instructors have employed in Arab Israeli schools? However, instructors must be acquainted in the first area with the goals of educating arithmetic in popular prior to identifying how to train it, due to the fact putting up the targets determines the way arithmetic is to be taught.

It is commonly agreed that the simple goal of instructing arithmetic is, on the one hand, to put together college students for public lifestyles regardless of their work or future aspirations, and on the different hand, to provide students the capacity to apprehend arithmetic itself in faculty or after graduation.

However, there are extra goals that ought to be borne in idea such as to furnish college students with the capacity to use appropriate questioning methods, to observe inductive and deductive reasoning, to be contemplative and reflective, and to accumulate trouble fixing skills. Teachers ought to emphasize the significance of arithmetic in public lifestyles through educating college students about the have an impact on of arithmetic on cultural development.





Moreover, it is indispensable to supply college students with the indispensable capabilities to recognize what they are analyzing and to find out new relationships, as nicely as to assist them in shaping high quality tendencies and attitudes closer to mathematics. Helping college students to depend on themselves in reading arithmetic is additionally necessary, alongside with creating proper habits such as accuracy, order, cooperation, mutual recognize and optimistic criticism, and enhancing intellectual competencies and scientific innovations.

Teaching arithmetic is an exciting profession, however it is no longer an effortless task, and it derives each its pleasure and its subject from the nature of arithmetic and the nature of the learner and his\her grasp of it. Like any profession, instructing requires expertise and art.

Teachers have to enhance themselves professionally with the aid of continuously gaining knowledge of the traits in arithmetic and attending occasions such as conferences, seminars, conferences and expert education classes in arithmetic to be acquainted with the excellent understanding as nicely as studying techniques and techniques that make the studying surroundings effective.

Teachers would then be in a position to join arithmetic with day by day existence and to furnish college students with examples and purposes that are tangible so that they can have interaction with the trainer and have interaction with the cloth and with the gaining knowledge of environment, and can understand the significance of mathematics.

Teachers have to be innovative in deciding on examples shut to the dwelling trip of students. They must additionally join arithmetic with summary concept as properly as the actual matters in existence for college students to recognize and love mathematics. Teaching arithmetic this way helps students' integration into society and helps them to analyze the art of thinking.

If arithmetic is now not associated to the person in any way, getting to know it will be vain and in simple terms contain memorizing for the exams. Students have many talents, and instructors need to assist them to use them and supply them with all the reachable skill of illustration, in particular cutting-edge ones Einat Heyd-Metzuyanin, in her articles about the have an effect on of procedural technique and conceptual approach on getting to know arithmetic and its relationship with mastering patterns and the concern of mathematics, concluded that the conceptual technique leads to the improvement of getting to know arithmetic amongst college students and will increase their motivation to learn about mathematics.

Through exploring assignments and demonstration in arithmetic the pupil is familiar with mathematical theories in depth, overcomes the difficulties and frequent errors





in mathematics, and sees the splendor of mathematics. Also. It is a right thinking to take advantage of technological know-how and cell telephones in the search for mathematical legal guidelines or to exercise mathematical troubles thru games, which additionally increase the mental skills of college students and enhances the academic materials. Moreover, the software of contemporary educating strategies is vital.

The purpose of the use of present day technological equipment in schooling is to increase the degree of the academic system as a whole, and therefore to create a technology that would preserve up with scientific and technological developments. Such a era will then be succesful of excelling and taking a main function in constructing the state and its quite a number scientific establishments thru new academic techniques structured upon present day progressive curricula with a foremost focal point on the scholar learner.

Masa'adeh argues that instructing arithmetic to college students at one of a kind academic degrees may additionally appear hard for teachers, students, and even dad and mom at home. The disparity between the academic skills of the college students and character variations between the students, the lack of instructional skills amongst the teachers, and the variations in the academic tiers of the parents, reasons a integral gap in educating mathematics.

Mathematics, frequently regarded a daunting subject, has unfairly received a popularity for being dry and boring. However, with the proper approach, this grasp can be converted and math can be made an enticing and exciting trip for rookies of all ages.

By infusing creativity and interactive things to do into your instructing methodology, you can assist college students improve a fantastic mind-set toward math and ignite their ardour for problem-solving.

One way to interact college students in math is by using highlighting its relevance to the actual world. Showcasing how math is used in daily situations can make summary principles extra tangible and relatable.

For instance, whilst instructing fractions, contain realistic examples like dividing a pizza or sharing goodies amongst friends. This method approves college students to visualize the standards and encourages them to suppose critically.

Integrating video games into instructing is an wonderful approach to make math enjoyable. Math-based board games, puzzles or on-line math video games can assist fortify principles whilst including an thing of exciting and competition.

These video games can be tailor-made to go well with extraordinary talent tiers and can be an high-quality way to have interaction college students in a friendly,





interactive studying environment. Incorporating hands-on things to do can make math extra experiential and interactive. Use manipulatives such as blocks, coins, or measuring equipment to assist college students apprehend summary ideas like addition, subtraction, multiplication, and division.

These tangible objects enable college students to bodily interact with the math problems, bettering comprehension and retention.

## **Conclusion**

An innovative approach to organizing elementary school mathematics classes transforms the learning experience for students. By incorporating active learning techniques, real-world examples, problem-solving strategies, differentiated instruction, and fostering a growth mindset, teachers can create a stimulating environment that enhances students' mathematical comprehension and skills. It is imperative that educators adapt their teaching methods to provide a dynamic, engaging, and inclusive mathematics education that equips young learners with the mathematical foundations they need for future success.

## **References:**

1. Anthony, G., & Walshaw, M. (2009). Effective pedagogy in mathematics. In Educational series—19. Brussels: International Academy of Education, Geneva.
2. Boaler, J. (2016). Mathematical mindsets: unleashing students' potential through creative math, inspiring messages and innovative teaching. San Francisco: Jossey-Bass.
3. Cheeseman, J., Clarke, D., Roche, A., & Wilson, K. (2013). Teachers' views of the challenging elements of a task. In V. Steinle, L. Ball, & C. Bordini (Eds.), Mathematics education: yesterday, today and tomorrow Proceedings of the 36th annual conference of the Mathematics Education Research Group of Australasia (pp. 154–161). Melbourne: MARGARET
4. Desforges, C., & Cockburn, A. (1987). Understanding the mathematics teacher: a study of practice in first schools. London: The Palmer Press.

