

Effective Teaching Methods in Mathematics

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Abstract

Education is imparted for achieving certain goals. Each subject has different means to achieve goals. Teaching and Learning of the subject are the most effective and useful means to achieve the goals.

As it is very much familiar that mathematics comes at the root of every discipline in general, particularly in science discipline. Teaching and Learning in mathematics is very complex activity and challenging task. Although there are no specific effective teaching methods in mathematics mentioned anywhere, yet many factors determine the success of teaching and learning in mathematics such as teaching and learning environment, motivation of the students towards the subject, quality of the content and the last but not the least the most significant presentation of the content etc. A Teacher needs to modify one's teaching skill in such a way that the basic concepts of mathematics are properly transferred to the student minds, by connecting the concepts with real life situations. Basically a teacher needs to create a rapport with students and must feel student's maturity and attitude for better teaching and learning of mathematics and all the teachers are required to use ICT Methods for accomplishing their course curriculum for making their teaching methods effective, progressive and fruitful.

Introduction

Mathematics is systematic and organized array of knowledge. It is also very familiar that mathematics lies at the root of every discipline in general, particularly in science discipline. If someone understands the concepts of mathematics and has a sense of applying it with real life problem, he is capable of surviving in the world of mathematics.

Basically mathematics is the study of numbers, quantities, magnitudes, different kind of forms, arrangements and their properties and relationship.

A true teacher of mathematics, must be devoted to the profession, needs to explore new different strategies with new ideal/concepts of knowledge mathematics. A teacher must create conducive teaching and learning environment and must have passion and patience in imparting knowledge of mathematics to the minds of the students in a systematic way. A teacher also has the responsibility to remove the fear and anxiety from the mindset of the students willing to learn mathematics as their careers.

We (teaching community of mathematics) ought to take the responsibility to motivate all students to learn mathematics. The reason behind it that the knowledge of mathematics are not only for best and brightest but also are the integral part of everyone's daily life. An eminent Mathematician rightly said in today's perspective".

"He would not be satisfied with the knowledge of mathematical theory until he could explain it to the next man he meets on the street".

II. Effective Teaching Methods in Mathematics

Some people seem to be are born as natural teachers because they are capable of transferring knowledge to the minds of students in very systematic way quite naturally. Most people need to work hard to be an effective teacher. The question arises as how does someone become competent and effective teacher of mathematic? There

is no definite list of parameters required to become a competent and effective teacher of mathematics, but one's devotion, passion, attitude and enthusiasm lead him or her in the direction of his or her becoming a true teacher.

Teaching and learning is very complex activity and challenging task. Although there are no specific effective teaching methods in mathematics mentioned anywhere, yet many factors determine the success of teaching and learning in mathematics such as conducive teaching and learning environment, motivation of the students towards the subject, quality of the content with its objectivity and the last but not the least the most significant presentation of the contents in a systematic way. For an effective teaching, a true teacher needs to frame lesson plan for using the contents of the subject with its goal, objectivity and applications.

The Lesson needs to connect the current topic with those of the past while laying ground work for those of the future. In the last, true teachers as well as the students, need to introspect and evaluate themselves and the students as well, after the lessons/syllabus are finished as per curriculum.

III. Conclusion

Mathematics is a dynamic and ever changing, so a teacher needs to modify his teaching skills in such a way that the basic concepts of mathematics are properly transferred into the minds of the students, by connecting the concepts with real life problems. For, a teacher is required to participate in workshops and conferences frequently. Besides this, a teacher needs to create a rapport with students and must feel student's maturity and attitude for better teaching and learning of mathematics. In modern era of information & technology, the wealth of facilities available to teachers of mathematics is fascinating; a teacher must use ICT methods for accomplishing their course curriculum for making their teaching method effective, progressive and fruitful.

Reference

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