

# Modern Trends and Perspective in Mathematics

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## Abstract

The main aim of this paper is to study the recent trends in present scenario of mathematics and role of mathematics in science and society. Mathematics always play a important role in developing science and society and it has been seen in the recent past also. I think no subject can escape from influence of mathematics .Now a day's mathematics is playing vital role in Bio-science.

**Key-words:-** Trends in mathematics, New tools, New forms of mathematical activity.

## Introduction

Mathematics is present in every sphere of day to day life and it is being used even when People don't know they are using mathematical reasoning. Therefore directly and indirectly they are involved in mathematical activity .Mathematical activity has changed a lot in the recent years. Some of these changes like the use of computers and mathematical modelling. Involvement of computer has made Mathematics more interesting and convenient than before.

**New tools:-** Computers and information technology have changed the face of mathematics as well as society . By the influence of computers on our everyday life and research is also changing fast besides the design of algorithm, experimentation and possibilities in visualization. We use email, online encyclopaedias' and other internet resources. Computer plays a constructive role in our lives and evolution of mathematics as well it is reliving us from boring aspect of traditional mathematical activity which it executes faster and more accurately than we can.

**The role of mathematics in science:-** Throughout time, mathematics has been always associated with its application and from these application, mathematicians have derived new direction. It is not surprising that many people ,particularly those who have been at the forefront of developing new application of mathematics, have wondered why mathematics has proven to be so practical and why the law of nature is so effectively expressed by mathematical formulae, Mathematics is theoretical and completely abstract created in moments of inspiration and afterward verified by the intellect. science on the other hand ,seeks to accurately and objectively describe and predict how the physical world around us behaves but never the less, these to approaches to knowledge have been intimately linked Science we observing and thinking about the world.

Every day dawns with scientific invention. This explosive expansion of scientific knowledge has influenced on nation's economy. Science and technology has made facilities available for Morden man .

What we are enjoying today in our life as a result of scientific inventions has only been possible with the aid of mathematics. Moreover, mathematics knowledge is essential in understanding and controlling the force of nature. Even the stars, sun, planets and the moon are bound to move as mathematics directs.

### **The Need for Mathematics in a Changing World**

The need to understand and be able to use mathematics in everyday life and in the Workplace has never been greater and will continue to increase. For example:

- **Mathematics for Life:**

Knowing mathematics can be personally satisfying and empowering. The underpinnings of everyday life are increasingly mathematical and technological. For instance, making purchasing decisions, choosing insurance or health plans, and voting knowledgeably all call for quantitative sophistication.

- **Mathematics for the Scientific and Technical Community.**

Although all careers require a foundation of mathematical knowledge, some are Mathematics intensive. More students must pursue an educational path that will prepare them for lifelong work as mathematicians, statisticians, engineers, and scientists. In this changing world, those who understand and can do mathematics will have significantly enhanced opportunities and options for shaping their futures. Mathematical competence opens doors to productive futures. A lack of mathematical competence keeps those doors closed. Generally, it is an assumption that mathematics is only for the select few. On the contrary, every one needs to understand mathematics. All students should have the opportunity and the support necessary to learn significant mathematics with depth and understanding.

### **Role of Mathematics in the Development of Education System:**

In education system, mathematics plays an important role in shaping the future possibility of Young people. Education is to develop an individual, to make her/him self-reliant, to make Her/him wise, to make her/ him a social contributor and in our education system, for almost every Subject, we study in school and university; we need to study mathematics too e.g., Physics, Chemistry, Life-Science, Economics, Business and Accountancy, Geography, History, Psychology, Architect, Designing, Computes, Statistics, Commerce etc. Also in vocational areas like Tailoring, Carpeting, Cooking, Beauticians, Sportsperson,

Farming etc, mathematical knowledge is needed. Even the professions like, Conductor, Shop Keeper, Drivers, Musicians, Magicians, and Cashiers etc Use basic mathematical concepts.

### **Conclusion:-**

The present study explored in detail about math phobia and related variables in the present context of the secondary level students. And also given detail explanation of need and significance of the study, objectives framed for the Study and organization of the study. Mathematics has its own intrinsic beauty and aesthetic appeal, but its cultural role is determined mainly by its educational qualities. The achievements and structures of mathematics are recognized as being among the greatest intellectual attainments of the human species and, Therefore, are seen as being worthy of study in their own right, while the heavy reliance of Mathematics on logical reasoning is seen to have educational merit in a world where rational Thought and behaviour are highly valued. Furthermore the potential for sharpening the wit and Problem- solving abilities fostered by study of mathematics is also seen as contributing Significantly to the general objectives of acquiring wisdom and intellectual capabilities. A cultured citizen is one who follows the norms of society and one who is a civilized person. A well mannered person is always simple, original, patient, honest, accurate and disciplined. Mathematics is a subject which is exact, real, original and precise, and one who studies Mathematics needs to follow the laws and rules. Thus, mathematics helps the people to be cultured citizens having sound morals.

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