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USE OF VIRTUAL TOOLS FOR TEACHING AND LEARNING MATHEMATICS

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Abstract

Mathematics is a subject of abstraction. It deals with concepts that require abstract thinking, visualization and spatial thinking skills. Mathematics requires traditional approach in teaching to a great extent but virtual means of transferring knowledge can make learning more meaningful. Concepts like that of geometry, transformations, relations etc can be dealt in an improved manner with virtual tools. Virtual environment creates a learning situation that is otherwise not possible for the teacher to create in the classroom. The simulations and transformation is not possible with limited tools of the classroom. Hence virtual environment is required to teach efficiently. In this research paper, research will explore various tools and technologies available to teach mathematics at school level. These virtual tools make it possible for the learners to visual the concept easily. Researcher has identified few tools, apps and technologies useful in teaching Mathematics effectively. A critical analysis of these web tools is also done by the researcher.

Keywords:

Introduction

Mathematics is branch of study that has topics such as numbers which is abstract nature and requires deeper understanding of associations, it also has concepts of space size and distance that is geometry that requires spatial thinking and visualization. This a discipline that has concepts like trigonometry that students find difficult to relate with. Mathematics is the subject of structure, order, and relationship that arose from primitive activities of counting, measuring, and describing object forms. It is concerned with logical thinking and quantitative computation, and its evolution has included increasing degree of idealisation and abstraction of its subject matter. Virtual world has great ability to deal with abstraction and visualization in an improved manner.

Virtual learning environment provides a platform to use digital tools to do something. Virtual learning tools provides an opportunity to present a topic or concept.

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