

Effective Use of Visuals in Teaching Mathematics

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Abstract : This article is about investigating how to effectively use visuals in teaching introductory mathematics. The analysis showed the use of visuals in teaching introductory mathematics can be an effective tool for enhancing students' learning and engagement in mathematics. The use of visuals was particularly effective for teaching concepts of numbers, operations with whole numbers, and properties of operations. The analysis also provides strong evidence that the effectiveness of visuals varied depending on the way the visuals are used. Furthermore, the analysis revealed that the use of visuals in mathematics instruction had a positive impact on student's attitudes toward mathematics, with students showing higher levels of motivation and enjoyment in mathematics classes.

Keywords : analytical thinking skills, instructional strategies with visuals, introductory mathematics, student engagement and motivation

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