APPLYING PIAGET'S THEORY OF COGNITIVE DEVELOPMENT TO MATHEMATICS INSTRUCTION

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ABSTRACT

This paper is based on a presentation given at National Council of Teachers of Mathematics (NCTM) in 2005 in Anaheim, California. It explicates the developmental stages of the child as posited by Piaget. The author then ties each of the stages to developmentally appropriate mathematics instruction. The implications in terms of not imposing unfamiliar ideas on the child and importance of peer interaction are highlighted.

FULL TEXT:

PDF

REFBACKS

There are currently no refbacks.

Applying Piaget's theory of cognitive development to mathematics instruction

The Piaget’s theory focus on development and learning theories. Development focus on the learner’s capabilities and. Example: In mathematics Grade 9 the lesson highlight the very basics of linear equations considered in grade 8. Learners are familiar with this type of equation where solving x require the use of Additive inverse and dividing by co-efficient of x. Here lies the significance of this research which joins constructivism and Piaget's theory of cognitive development in ESL classes in Lebanese villages. The purpose of the present study is to explore the effects of applying constructivist student-centered strategies in teaching grammar, reading comprehension, and poetry on students in elementary ESL classes in two villages in Lebanon, Zefta in South Lebanon and Boqaata in Mount Lebanon.