

Reflection on Using Bar Model Method in Learning and Teaching Primary Mathematics: A Hong Kong Case Study

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Abstract : This case study research attempts to examine the use of the Bar Model Method approach in learning and teaching mathematics in a primary school in Hong Kong. The objectives of the study are to find out to what extent (a) the Bar Model Method approach enhances the construction of students' mathematics concepts, and (b) the school-based mathematics curriculum development with adopting the Bar Model Method approach. This case study illuminates the effectiveness of using the Bar Model Method to solve mathematics problems from Primary 1 to Primary 6. Some effective pedagogies and assessments were developed to strengthen the use of the Bar Model Method across year levels. Suggestions including school-based curriculum development for using Bar Model Method and further study were discussed.

Keywords : bar model method, curriculum development, mathematics education, problem solving

Conference Title : ICME 2022 : International Conference on Mathematics Education

Conference Location : Singapore, Singapore

Conference Dates : May 05-06, 2022