

## **Multilevel analysis approach for determining 8<sup>th</sup> grade mathematics achievement in the State of Kuwait**

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The purpose of this study was to determine the magnitude of the effects of students' level variables and school level variables in predicting the 8<sup>th</sup> Grade students' achievement in Mathematics in the State of Kuwait by using the Hierarchical Linear model (HLM) strategy. A sample of 865 eight-graders and their parents participated in this study. Furthermore a stratified sample of 37 schools together with their principals and mathematics teachers were involved in the study. The assessment battery of mathematics test, students', teachers', and schools' questionnaires were used for the purpose of collecting data.

The findings of this study revealed that the variation within schools is higher than the variation between schools, which means that the student-level variables such as prior achievement and academic self-concept in predicting mathematics achievement are more important than school-level variables.