

Transforming Education for the Future: A Framework towards a Center of Excellence and Innovation in Science and Mathematical Education in Laurel, Province of Batangas

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Abstract

The study aimed to examine the perceptions of students, teachers, and the school administrator regarding Science and Mathematics education at Academia De Mayuga and to determine how these perceptions influenced performance outcomes. A descriptive-correlational research design was employed, involving all 302 students from Grades 7 to 12, 18 teachers, and the school administrator. Data were collected through tailored survey questionnaires, covering 13 domains for students and 5 domains each for teachers and the administrator. Descriptive and regression analyses were used to interpret the data. Based on the findings of the study, the following conclusions are drawn: Teachers in Science and Mathematics demonstrate a strong commitment to professional standards, exhibiting high consistency in curriculum implementation, learner-centered teaching methods, and content expertise. The findings reveal that teachers consistently align their lessons with prescribed competencies and utilize inquiry-based and hands-on strategies. This study was conducted at Laurel, Batangas, Philippines. This research mainly focuses on education and teaching as the context and discipline of the study.

Keywords: school administrator, descriptive-correlational research design, inquiry-based and hands-on strategies