



INSTRUCTIONAL PREFERENCES, EXTENT OF USE OF SCIENCE AND MATHEMATICS TEACHING STRATEGIES AND ACADEMIC ACHIEVEMENT OF SELECTED SECONDARY SCHOOLS IN UPLAND CAVITE: AN ASSESSMENT

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ABSTRACT

Teachers have an important influence on students' academic achievement because they stand in the interface of the transmission of knowledge, values, and skills in the learning process through the instructional strategies they employ in the classroom. The level of achievement of students in school depends on the degree of effectiveness of instructional strategies used by the teacher. Thus, this study was conceptualized and conducted to examine the instructional strategies preferred and used by the Science and Mathematics teachers and the impact of those strategies in students' academic achievement in Science and Mathematics. The study used a descriptive–correlational research design. Participants of the study comprised a total enumeration of 61 teachers who were chosen through total enumeration and 610 students who were selected using two-stage random sampling technique. Results of the study revealed that lecture discussion, demonstration, problem solving, project, inquiry approach, cooperative learning, and use of audio-visual instructional strategies were highly preferred and used by the teacher participants in teaching Science and Mathematics. Academic achievement of student participants was found to be “significant” to the teacher participants' instructional strategy preferences. The preference of the teachers on instructional strategies had a significant effect on the students' academic performance. On the other hand, teacher participants' extent of use of instructional strategies showed to be “not significant” to the academic achievement of students in Science and Mathematics. The instructional strategy being used by the teachers did not affect the level of performance of students in Science and Mathematics.

Keywords: teaching–learning process, academic achievement, instructional strategies, extent of use, instructional preferences