Strategic Use of Technology in High School Mathematics Classrooms

— Natalie Valla

Abstract: This study examines how exemplary secondary mathematics teachers integrate technology into their classroom instruction. Through interviews, this research explores how teachers select appropriate technologies and plan instructional applications that support teaching and learning mathematical concepts. Classroom observations provide an in-depth description of teachers' lessons, including how teachers and students use the technology. Case studies, constructed from the data, are analyzed through the lenses of teacher thinking, student engagement, and the mathematical concepts supported by the technology. This research opens a window into the thinking of expert mathematics teachers. Like the technology these exemplary teachers use, the study makes visible the complexities of teaching and provides a rich description of instruction in technology-rich mathematics classrooms.

Further Information
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