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Professional development through technology-integrated problem solving: from InterMath to T-Math.

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Summary: The ability to integrate technology into instruction is among the characteristics of a competent mathematics teacher. Research indicates that the vast majority of teachers in Turkey believe the use of computers in education is important, but have limited knowledge and experience on how to use technology in their instruction. This paper describes the T-Math project (<http://www.t-math.org>), which adapted the InterMath (<http://intermath.coe.uga.edu>) knowledge base for mathematics teachers in the United States and developed relevant resources for professional development of Turkish mathematics teachers to guide them in constructing useful strategies for their students while developing as expert mathematics teachers. Examples of mathematical investigations adopted and developed in the T-Math project are presented as well as the anticipated challenges and subsequent strategies for integration.

Classification: B50 D39

Keywords: professional development; problem solving; computers in the mathematics classroom; Turkey