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Tactile Learning Tasks to Enhance the Content Knowledge of Mathematics Pre-service Teachers.

In order to accommodate variation in students' learning styles and how one perceives and processes information, special focus must be placed on enhancing the content and pedagogical knowledge of elementary and middle school pre-service teachers. A prominent way of accomplishing such enhancement is through the use of tactile teaching methods and activities in undergraduate mathematics courses for pre-service mathematics teachers. We will present mathematics tasks and activities used with pre-service mathematics teachers in undergraduate mathematics courses to engage them in the development of transformative pedagogical and content knowledge, allowing students to experience concepts in new and exciting ways. (Received September 20, 2012)