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The use of video technology in pre-service teacher education and in-service teacher professional development.

Ng, Swee Fong (ed.), Cases of mathematics professional development in East Asian countries. Using video to support grounded analysis. Singapore: Springer (ISBN 978-981-287-404-7/hbk; 978-981-287-405-4/ebook). Mathematics Teacher Education 10, 229-247 (2015).

Summary: This chapter provided a review of the western literature on the use of video technology in teacher education and professional development. The importance of using videos in building pre-service and in-service mathematics teachers was discussed in the context of digital literacy and current movements in teacher education and professional development. The role of video in teacher education and professional development has evolved since the 1960s based on both prevailing learning theories and technological innovations. Following the review, a rubric was constructed to evaluate the effectiveness of video technology used in pre-service and in-service mathematics teacher education and professional development in six Asian countries: Hong Kong, Indonesia, Korea, Malaysia, Singapore, and the Philippines.

Classification: U89 D49

Keywords: video technology; pre-service teacher education; in-service teacher professional development; affordances of video

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