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Development of student and teacher assessments in the scaling up SimCalc project.

Hegedus, Stephen J. (ed.) et al., The SimCalc vision and contributions. Democratizing access to important mathematics. Dordrecht: Springer (ISBN 978-94-007-5695-3/hbk; 978-94-007-5696-0/ebook). Advances in Mathematics Education, 167-181 (2013).

Summary: As SimCalc targets mathematics achievement goals that lie beyond what many schools today focus on, new assessments are needed to measure what students learn and what teachers must know to support their learning. We provide an overview of how we developed four assessments for the Scaling Up SimCalc project and describe each of the processes we used to document the technical qualities of the assessments. This methodological approach can be used to measure the effectiveness of dynamic mathematics approaches at scale.

Classification: D60 B50 C70

Keywords: students assessment; teacher assessment; achievement; teaching-learning process; dynamic mathematics software; computer aided instruction

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