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Tarr, James E.; Walker, Erica N.; Hollebrands, Karen F.; Chval, Kathryn B.; Berry, Robert Q. III; Rasmussen, Chris L.; Konold, Cliff; King, Karen

New assessments for new standards: the potential transformation of mathematics education and its research implications.

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From the text: The current era of common curriculum standards, increased accountability, and rapid expansion of technology within a complex and highly charged political context has influenced changes in assessment practices in mathematics classrooms. However, there has been an insufficient effort to develop and implement a coordinated research agenda related to assessment. In this research commentary, we situate high-stakes assessments in a historical context, discuss recent advances in assessment tools and related technologies, make recommendations related to future research efforts, and outline potential challenges and opportunities associated with these recommendations.

Classification: D60 D30 D20

Keywords: educational change; educational research; teaching methods; politics of education; state standards; mathematics tests; computer assisted testing; summative evaluation; formative evaluation; mathematics curriculum; mathematics teachers; teacher education; equal education; assessment

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