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Implementing a full curriculum in blended learning: A K12 Case Study.

It's not easy to design a truly effective mathematical game, instructional video, or problem bank targeting a particular concept or topic. Most current efforts at online instruction focus on one of these methods to supplement in-class learning. A more promising (and challenging) approach is to fully integrate a complete, mathematically rich online curriculum with classroom teaching. In this talk we describe the experience of Reasoning Mind, a Texas-based nonprofit, at working with mathematicians and expert teachers to develop online mathematics curricula, training classroom teachers to understand and complement it in their work with students, implementing at scale, and measuring the effects on students' understanding of and attitudes toward mathematics. (Received September 15, 2014)