

Teaching Teachers to Use Computer Assisted Learning for Facilitating Personalized Learning at Scale: Experimental and Non-Experimental Evidence

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Abstract

We implement and test a computer assisted learning (CAL) program that helps simulate a personalized tutoring experience. The Khoaching with Khan Academy (KWK) program helps assist teachers to use Khan Academy (KA) effectively in their classrooms, offering support and guidance for improving mastery in Grades 3-8 mathematics. We provide coaching (Khoaching) to teachers to introduce regular customizable assignments, monitor and manage progress, and encourage parents and students. We find that when teachers and schools facilitate sufficient weekly practice time (at least 35 minutes a week, on average), math test scores improve by about 20 percent of a standard deviation, on average. However, lower amounts of classroom practice time leads to negligible, or even negative, effects.