Computer-Aided Math Instruction Proven to Boost Scores

NEW ORLEANS, /PRNewswire/ -- As schools struggle to increase math achievement and improve science, technology, engineering and mathematics (STEM) education, research shows computer-aided instruction (CAI) is a proven, cost-effective solution to the nationwide problem.

A new white paper published by the International Center for Leadership in Education (ICLE) titled The Effectiveness of Computer-Aided Mathematics Instruction in the New Era of STEM Education concludes CAI has been proven to work at scale in independent scientifically based research studies and can help schools address the many challenges of STEM education. The study concludes "computer-aided instruction offers advantages over traditional instruction, including one-on-one interaction, multimedia capabilities that enrich the lesson presentations, self-pacing, and instantaneous feedback."

The paper finds:

* Schools struggle staffing math classes

* There is a persistent achievement gap for at-risk students in the subject area

* Resources are often not equitably allocated to STEM education in the classroom; and

* Teachers are forced to teach more content in less time.

As a solution, educators use CAI to elevate and standardize the quality of instruction in line with state and Common Core State Standards, delivering the same content and a consistent level of instruction to all students, regardless of social or economic status. CAI serves as an "out-of-the-box" solution for teachers teaching out of field and can help close achievement gaps.

At-scale studies in the paper show only one CAI program has proven effective at increasing student achievement. The I CAN Learn® Instructional Improvement System is the only middle school math program with Positive Effects, according to the U.S. Department of Education's What Works Clearinghouse. Students randomly assigned to the program scored significantly higher than students randomly assigned to traditional instruction. Independent studies show, by using the program:

* Schools can close the achievement gap by nearly one-third

* Students can learn 1.5 years of Algebra content in one year; and

* Districts can improve test scores and save money.

Studies show the program also helps every teacher meet the standards of a "highly effective teacher" as defined by the U.S. Department of Education in the Race to the Top grant competition.

To read a free copy of "The Effectiveness of Computer-Aided Mathematics Instruction in the New Era of STEM Education" visit: www.icanlearn.com/results.html

To learn more about the I CAN Learn® Instructional Improvement System, visit: http://www.icanlearn.com/ [1]

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