

Carnegie Learning, Inc.

Corporate Fact Sheet

What We Do

Carnegie Learning is a leading publisher of core, full-year mathematics programs as well as supplemental and math interventions for secondary and post-secondary students. We develop instructional math solutions under the Carnegie Learning brand, including:

- Carnegie Learning™ Adaptive Math Solutions, a supplemental solution for secondary mathematics comprised of Cognitive Tutor® Software titles
- Carnegie Learning™ Math Textbooks, core math curricula that fosters collaborative learning in secondary classrooms.
- Carnegie Learning™ Blended Math Curricula, a powerful combination of Carnegie Learning Textbooks and Cognitive Tutor software.
- Carnegie Learning™ Developmental Math Solutions, math curricula that helps students more quickly reach competency levels for entrance into college math courses.

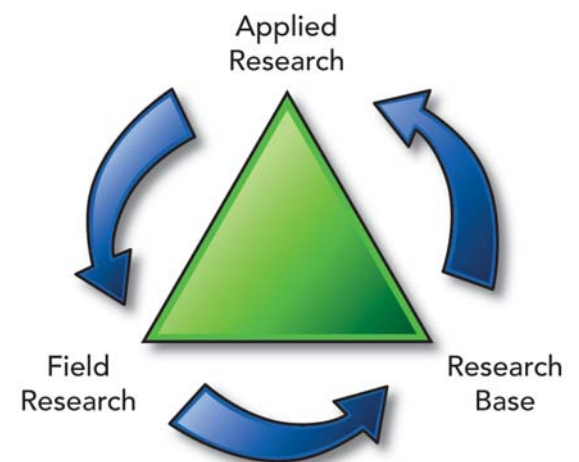


Research

Carnegie Learning™ Curricula are based on more than two decades of research at Carnegie Mellon University on how students think, learn, and apply new knowledge. The results of this research formed the foundation for the development of Cognitive Tutor® software. Our Cognitive Tutor Software is based on the ACT-R theory of learning, memory and performance, which has been validated by hundreds of lab and field studies. Our unique cognitive modeling technology identifies weaknesses in a student's mastery of mathematical concepts and individualizes instruction to focus on areas where each student is struggling. This continual assessment of student knowledge is available immediately to teachers and students, resulting in ongoing formative assessment completely integrated with instruction.

Independent Studies

In numerous independent studies, Carnegie Learning solutions consistently have shown a significant effect on student learning outcomes resulting in improved academic achievement in mathematics. In fact, effect sizes consistently range from 0.3 to 1.2 SD. The What Works Clearinghouse considers effect sizes greater than .25 to be of practical significance.



Any student, anywhere can learn math. And we're proving it. Carnegie Learning™ Solutions are helping nearly 500,000 students in over 2,600 schools across the U.S. succeed in math.

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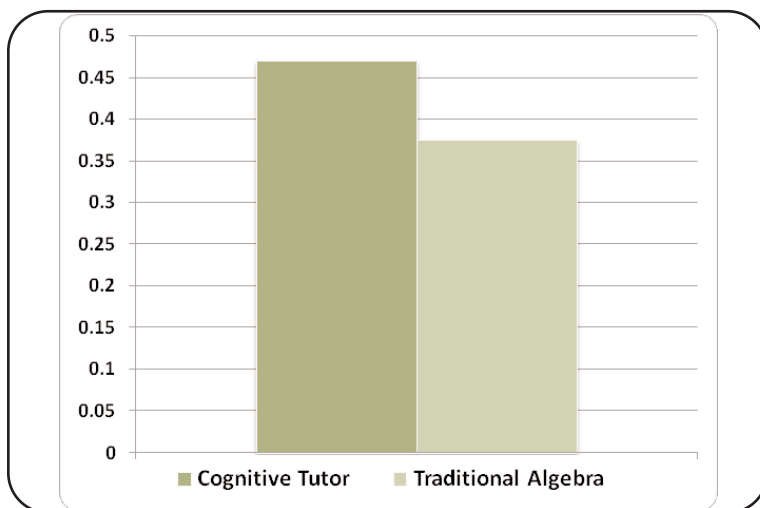
Continuous Improvement Model

Carnegie Learning is the leader in using cognitive science to develop a research-based model for how students learn. This model is the foundation for developing our adaptive technologies in the Cognitive Tutor software. In fact, we are the only publisher that has a continuous improvement model for enhancing our instructional software. Annually, we've collected over 42 million observations of students' studying (that's approximately one action for each student every seven seconds). We use the data to enhance our materials to provide the best fit for how students learn.

Results

We continue to support investigations into the efficacy of our programs. For example research has shown that students using the Cognitive Tutor Algebra I program:

- Demonstrate 85% better performance on assessments of complex mathematical problem solving and thinking
- Achieve 15-25% better scores on the SAT and Iowa Algebra Aptitude Test
- Have a 70% greater likelihood of completing subsequent Geometry and Algebra II courses
- Perform 30% better on questions in the TIMSS assessment



Current Research

Carnegie Learning's current research activities include:

- U.S. Department of Education funded \$6 million grant for RAND Corporation to conduct five-year study of the effectiveness of Carnegie Learning's technology-based mathematics curriculum
- Large-scale randomized field evaluation of Cognitive Tutor Geometry
- Over 20 controlled experiments on variations of the Cognitive Tutors in conjunction with the Pittsburgh Science of Learning Center
- Analysis of student learning in Bridge to Algebra, using a data set that represents 35 million student interactions.

For more information about Carnegie Learning, please contact us at 888.851.7094 or visit our website at:

www.carnegielearning.com