



Academy of MATH

Intervention Solution



$6 \times 7 = 42 \quad 7 \times 7 = 49$

$8 \times 7 = 56 \quad 9 \times 7 = 63$

$0 \times 8 = 0 \quad 1 \times 8 = 8$

$2 \times 8 = 16 \quad 3 \times 9 = 27$

$3 \times 8 = 24 \quad 4 \times 8 = 32$

$7 \times 3 = 21 \quad 5 \times 8 = 40$

$6 \times 8 = 48 \quad 7 \times 8 = 56$

$8 \times 8 = 64 \quad 9 \times 8 = 72$

$3 \times 7 = 21 \quad 4 \times 9 = 36$

$8x - 2 + 2 = 14 + 2$

$x = 21/7 \text{ or } x = 3$

$4 \times 3 = 12 \quad 21 + 37 = 58$

$x - 3 + 3 = 5 + 3$

$x = 5 + 3 \text{ or } x = 8$

$694,529 - 476,733 = 217,796$

$70 \times 60 = 4200 \quad 4 \times 25 = 100$

$8 \times 25 = 200 \quad 3 \times 6 \times 9 \times 12 = 1944$

$15 \times 11 = 165 \quad 18 \times 21 = 378$

$11 \times 24 = 264 \quad 10 \times 24 + 1 \times 24 = 264$

$32 \times 17 = 544 \quad 9 \times 11 = 99$

$16 \times 25 = 400$

$8 \times 2.3 = 18.4 \quad 10 \times 2.3 = 23$

$4 \times 5 \times 2 = 40$



Proven Results

“Semi-annual external testing shows that our students are doubling and tripling the expected annual growth rate, gaining two and three grade levels in one year. What’s more, they are surpassing teachers’ expectations, passing an integrated algebra/geometry course and state testing. Before implementing Academy of MATH, only 42% of all students met the math standard. In 2005, four years after starting the program, 73% of kids met the standard.”

**Dave Bond, Assistant Superintendent of Secondary Education
Kennewick School District, WA**

AutoSkill®

A helping hand for literacy ◀

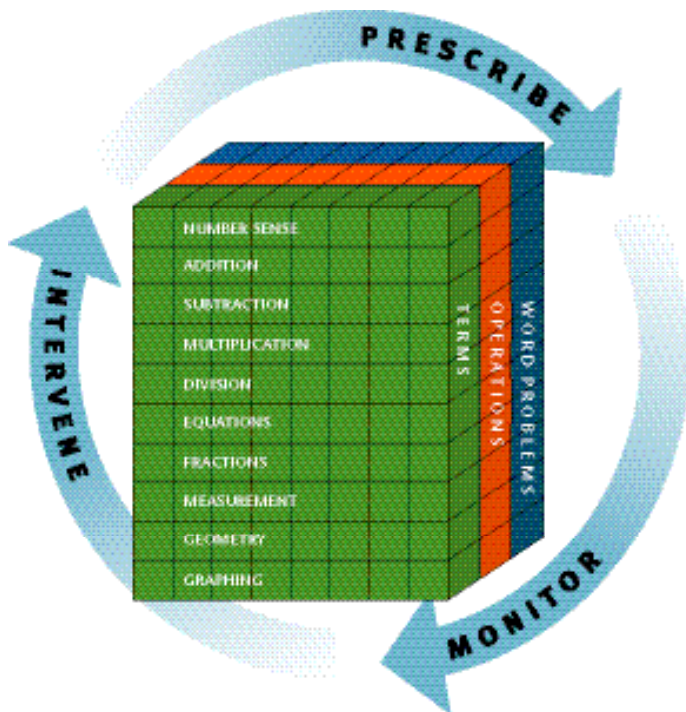
Proven Approach to Permanent Math Gains



Academy of MATH® is used by thousands of elementary, middle and high school students. Developed by AutoSkill International Inc., it is a proven intervention approach that helps at-risk students develop mathematical proficiency. The methodology incorporates instructional and behavioral principles to address skills development and learner motivation, while providing intervention strategies to help districts and schools achieve their adequate yearly progress (AYP) goals.

Fluency in Foundation Skills

Academy of MATH utilizes a systematic approach to help struggling students build fluency in foundation math skills aligned to NCTM standards. For each skill area and level, students build conceptual knowledge (terms), computational fluency (operations), and strategic competence (word problems).



Academy of MATH supplements existing curriculum by helping students build foundation skills that align to National Council of Teachers of Mathematics standards.

These skills are trained to a level of mastery that ensures robust and permanent skills development.

Individualized instruction lets students systematically target areas of weakness while teachers can facilitate learning where they are needed the most.

Prescribe

- Training stream is automatically assigned based on each student's mathematical abilities relative to their grade
- Students progress at their own pace, filling in skill gaps to achieve fluency

Monitor

- Real-time progress monitoring helps teachers with formative instruction by providing data on errors, response times and skills mastered
- Management tools enable administrators to assess program fidelity

Intervene

- Based on interaction between students and the program, training is dynamically modified to meet individual needs
- Students can accelerate through skills where proficiency is demonstrated and review concepts when extra help is required

Fluency: The AutoSkill Difference

A critical success factor in mathematical proficiency, computational fluency requires students to develop a well-built foundation. Through extensive tutorial and practice sessions, Academy of MATH ensures foundation math skills are mastered. As a result, students can devote cognitive effort to advanced math concepts, such as Algebra I.

“We’re seeing gains of up to two years for students, and teachers in other subject areas have noticed improved attitudes and performance in students enrolled in the intervention program.”

Amy Blanton, Coordinator of Instructional Technology
Rutherford County Schools, TN



Rapid, Measurable Results

Progress and program accountability reports give educators and administrators valuable tools to track student results – at student, class and school levels – through a single management interface.

The screenshot shows the AutoSkill® Academy of MATH® Reports interface. The user is logged in as 'admin'. The report is titled 'School Gains Summary Report' for the Academy of MATH. The school is 'AutoSkill Academy' and the subject is 'Math'. The school type is 'Middle' and the principal is 'Mr. Wilson'. The report shows that 75% of the school was pre-tested and 60% was post-tested. The report covers the period from August 15, 2005, to May 10, 2006, at 12:30 PM. It reflects the results of 27 student(s) who have completed their post-tests, out of a total of 45 student(s) in this school.

% of students scoring Basic+		Average		
At pre-test	At post-test	Time on task between tests (hh:mm)	Skills mastered between tests	Level gain
10%	65%	10:15	20	2.10

The 'School average level change' bar chart shows a pre-test score of 5.4 and a post-test score of 7.5.

Administrators run graphical reports to identify gaps and assess progress toward achieving targets.

Academy of MATH Success Story

St. Ferdinand Parish achieves high gains and great impact with Academy of MATH.

- 89% of fourth grade students were at or above the national norm, and significantly higher than their anticipated score
- 73% of third grade students were at or above the national norm, and six points higher than their anticipated score

State: Illinois
Grades: 3-8
Number of students: 325
Demographics: 54% of students are English language learners





K-12 Intervention

Developed to complement reading and math curriculum and address skills development and learner motivation, Academy of READING and Academy of MATH are flexible solutions for:

- Elementary, middle and high schools
- At-risk ELL, special education and Title I students
- Before school, during school (labs, back of classroom), after school, and summer school

Expert Implementation Support

The AutoSkill Advantage Program helps schools and districts make the most of their investment in Academy of READING®, Academy of MATH® and SpanishTutor™. Teachers and administrators can access expert technical and instructional assistance, implementation strategies, motivational best practices and tools to use in the classroom.

Flexible Instructional Model

Academy of READING and Academy of MATH are easily managed, for cost-effective implementation of reading and math intervention programs.

- Scales easily from a few students to a classroom, school or district-wide implementation
- Provides browser-based access for students, teachers and administrators from any workstation on the network
- User-friendly interface lets students begin training immediately and see results quickly

About AutoSkill® International

AutoSkill creates award-winning intervention solutions to help close the achievement gap in K-12 schools. For over 17 years, its research-based programs have helped at-risk students to build fluency in the foundation skills of reading and math.

The company's core products, Academy of READING and Academy of MATH, deliver rapid, permanent gains so students progress in their education and administrators meet AYP targets. For more information, visit www.autoskill.com.

AutoSkill®

A helping hand for literacy ◀

AutoSkill International Inc.
555 Legget Dr., Tower B, Suite 600
Ottawa, Canada K2K 2X3
Tel: 800 288-6754 Fax: 613 287-0990
Email: info@autoskill.com
www.autoskill.com