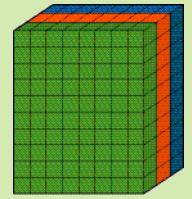


Understanding the Math Cube



▶▶▶▶ Proven Approach to Permanent Math Gains

- Conceptual knowledge
- Computational fluency
- Strategic competence

$2 \times 7 = 14$ $3 \times 7 = 21$
 $4 \times 7 = 28$ $5 \times 7 = 35$

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

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

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

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

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

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

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

$8 \times 8 = 64$ $9 \times 8 = 72$ $5 \times 9 = 45$

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

$8 \times - 2 + 2 = 14 + 2$

$x = 21/7$ or $x = 3$

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

$x - 3 + 3 = 5 + 3$

$x = 5 + 3$ or $x = 8$

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

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

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

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

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

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

$16 \times 25 = 400$

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

$4 \times 5 \times 2 = 40$

Steps to Mathematical Proficiency

Academy of MATH® utilizes a systematic approach to help struggling students develop mathematical proficiency. For each skill area and level, students build conceptual knowledge (terms), computational fluency (operations), and strategic competence (word problems).

One Skill at a Time

Academy of MATH supplements existing curriculum by helping students build from basic proficiency to complex, conceptual proficiency in 10 skill areas that align to National Council of Teachers of Mathematics standards.

Number Sense

Keywords & symbols • Place values & patterns • Integers & exponents
Base 10 number system • Rounding • Square roots, ratios & proportions

Addition

Keywords & symbols • Rounding & estimating sums • Three- to four-digit numbers
Facts & patterns • Grouping & ordering • Integers

Subtraction

Keywords & symbols • Estimates • Three- to eight-digit numbers
Grouping & ordering • Inverse operations • Integers

Multiplication

Keywords & symbols • Distributive properties • Factors & multiples
Prime & composite numbers • Integers • Powers of 10

Division

Keywords & symbols • Factors & quotients • Divisibility tests • Long & short division
Integers • Powers of 10

Fractions

Keywords & symbols • Adding & subtracting • Decimals & percents
Multiplying & dividing • Improper & mixed fractions

Equations

Keywords & symbols • Comparing & ordering • Algebraic expressions
Expressions & variables • Formulas • Percents

Measurement

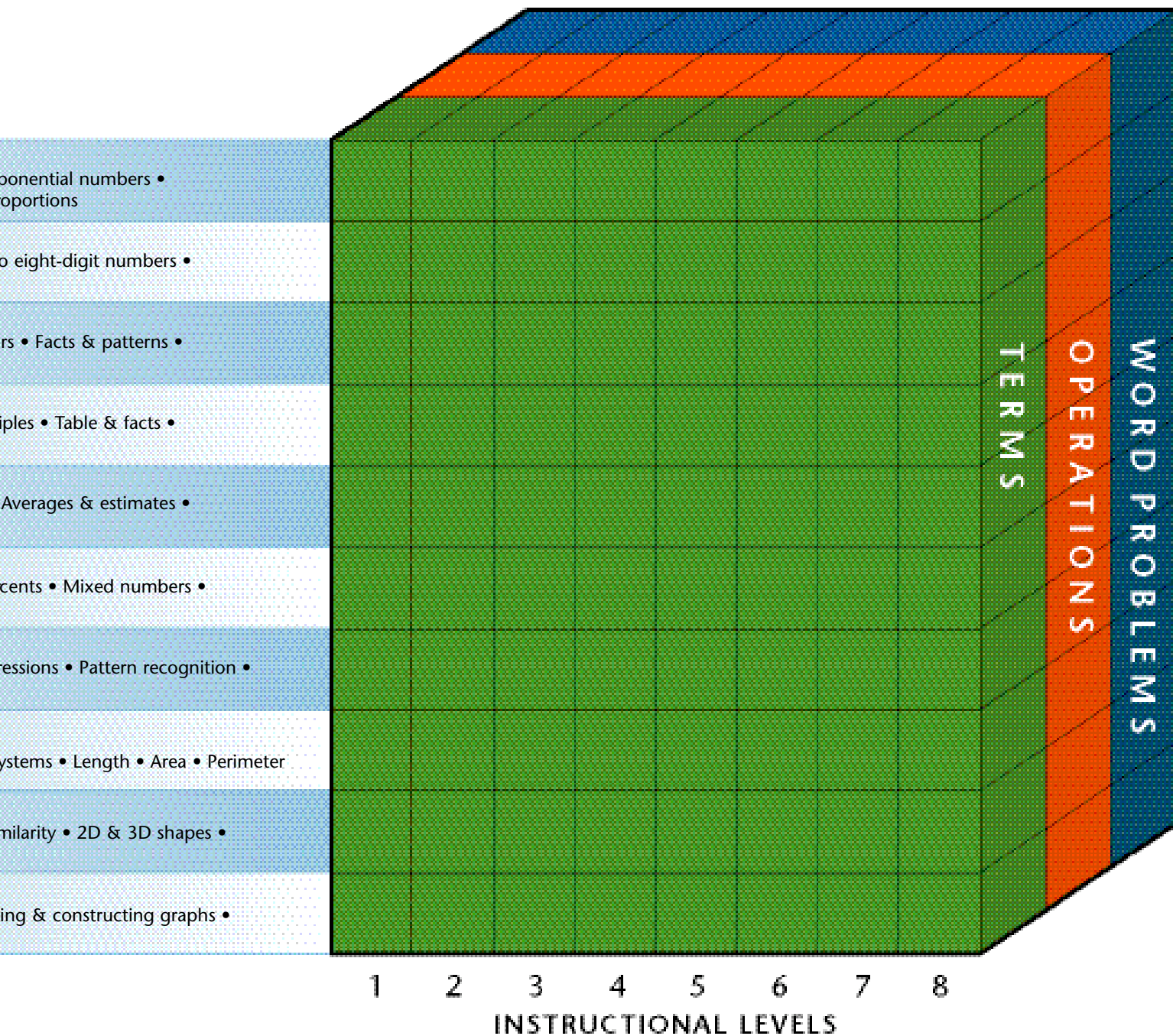
Keywords & symbols • Volume & weight • Metric & imperial systems

Geometry

Keywords & symbols • Spatial relationships • Congruence & similarity
Symmetry • Coordinates & angles • Volume & area

Graphing

Keywords & symbols • Coordinate system • Histograms • Reading
Tally charts • Statistical analysis





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