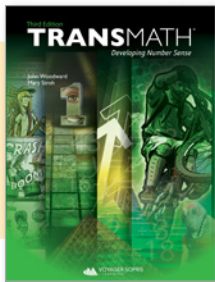


Third Edition

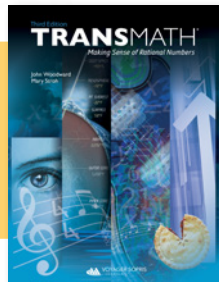
TRANSMATH[®]**ENGAGE STUDENTS IN REAL-WORLD MATHEMATICS
FROM NUMBER SENSE TO ALGEBRA**

TransMath[®] is a comprehensive math intervention curriculum that targets middle and high school students who lack the foundational skills necessary for entry into algebra and are two or more years below grade-level in math. *TransMath* emphasizes fewer topics in greater depth while accelerating students to more advanced math, from number sense to rational numbers to understanding algebra.

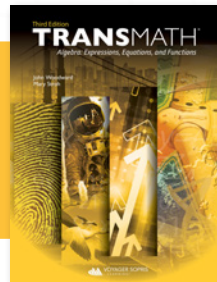
Three levels prepare students for algebra:



Level 1:
Developing
Number Sense



Level 2:
Making Sense of
Rational Numbers



Level 3:
Algebra: Expressions,
Equations, and Functions

**ALGEBRA
READINESS**

Each level of *TransMath* provides 120 50-minute lessons.

TransMath:

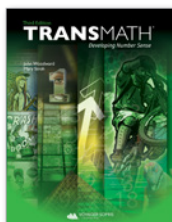
- Deepens conceptual understanding and builds problem-solving proficiency through the use of explicit instructions and multi-sensory strategies
- Embeds lesson-by-lesson models to support teacher preparation and strengthen teacher's content knowledge
- Facilitates whole-class and individual interactive learning by providing access to digital tools to increase the opportunities for mathematical discourse and peer learning
- Provides students and teachers with eBook access to support their learning and provide greater interaction between the student and the teacher

TECHNOLOGY CONNECTION

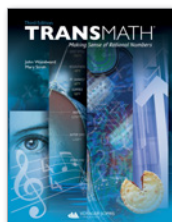
- All content available digitally to teachers and students
- Digital manipulatives enhance learning
- TeacherTalk Tutorials reinforce lesson concepts using narrated, animated visual models
- Interactive Click-Thrus use visual models to concretely develop concepts
- Online extension and reinforcement activities

TRANSMATH: THIRD EDITION REDESIGNED TO INTEGRATE THE CONCEPTS AND SKILLS OF TODAY'S STANDARDS

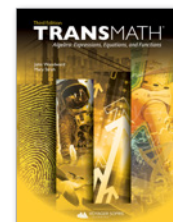
Each *TransMath* lesson is delivered in dual concepts: Topic one provides a conceptual skill; Topic two provides a problem-solving skill, which allows the foundational skills of mathematics to be taught while also using problem-solving activities to push students toward grade-level content. These two topics are often not related to avoid cognitive overload and provide students a greater opportunity for success.



Level 1: Developing Number Sense



Level 2: Making Sense of Rational Numbers



Level 3: Algebra: Expressions, Equations, and Functions

CONCEPTUAL SKILL	PROBLEM-SOLVING SKILL
Whole Number Operations	Working with Data
Factors, Primes, Composites	Problem Solving with Data
Common Factors	Measuring Two-Dimensional Objects
Compositions	Area and Perimeter
Fraction Concepts	Properties and Shapes
Adding and Subtraction Fractions	Transformations and Symmetry
	Statistics
	Units of Measurement

CONCEPTUAL SKILL	PROBLEM-SOLVING SKILL
Fractions: Fair Shares and Part/Whole	Fraction Problem Solving
Fractions: Magnitude, Equivalence, and Operations	Tools for Measurement
Mixed Numbers	Tessellations
	Geometry
	Measurement
Decimals and Operations	Probability and Percent Problems Solving
Percent	Graphing
Probability	Coordinate Graphs
Integers and Integer Operations	

CONCEPTUAL SKILL	PROBLEM-SOLVING SKILL
Fractions and Decimals	Statistics
Variables	Ratios, Proportions, Percents
Inequalities	Surface Area of 3D Shapes
Algebraic Patterns	Volume of 3D Shapes
Algebraic Expressions	Geometry Construction & Angle Measurement
Algebraic Rules and Properties	Lines and Angles
Intro to Functions	Working with Coordinate Graphs
Square Roots	Non-Linear Functions
Irrational Numbers	

Incorporates Key Recommendations for Improving Mathematics Problem Solving*:

- ✓ Prepare problems and use them in whole-class instruction
- ✓ Assist students in monitoring and reflecting on the problem-solving process
- ✓ Teach students how to use visual representations
- ✓ Expose students to multiple problem-solving strategies
- ✓ Help students recognize and articulate mathematical concepts and notation

*Woodward, J., Beckmann, S., Driscoll, M., Franke, M., Herzig, P., Jitendra, A., Koedinger, K. R., & Ogbuehi, P. (2012). Improving mathematical problem solving in grades 4 through 8: A practice guide (NCEE 2012-4055). Washington, DC: National Center for Education Evaluation and Regional Assistance, Institute of Education Sciences, U.S. Department of Education. Retrieved from http://ies.ed.gov/ncee/wwc/publications_reviews.aspx#pubsearch/.