

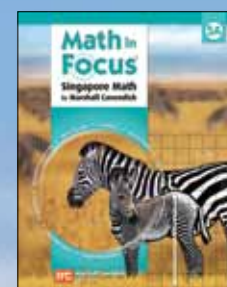
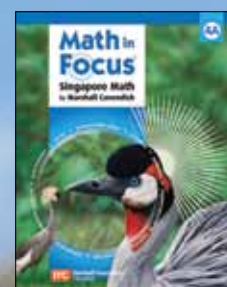
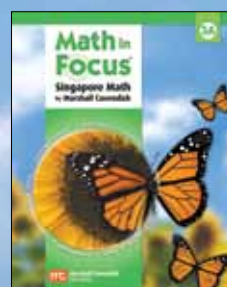
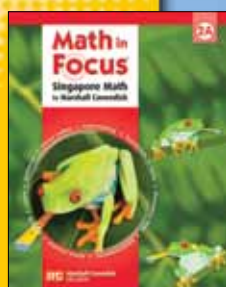
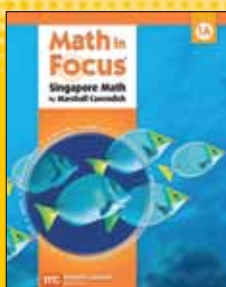
# Math in Focus™

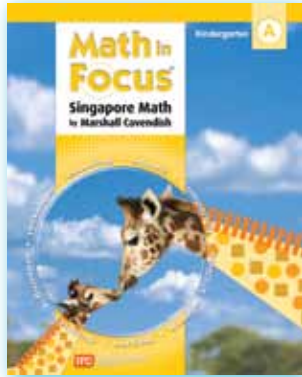
Singapore Math  
by Marshall Cavendish

Grades K–5  
Scope and Sequence

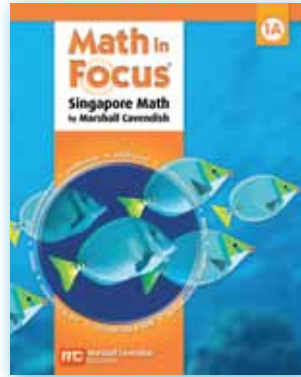
Your #1 Choice for  
World-Class Mathematics!

Deep Math Understanding.  
Real-World Problem Solvers.

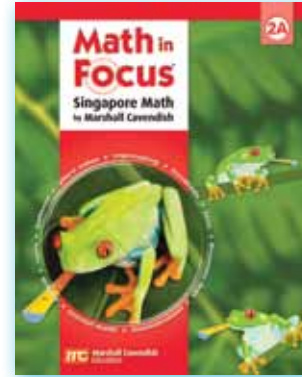




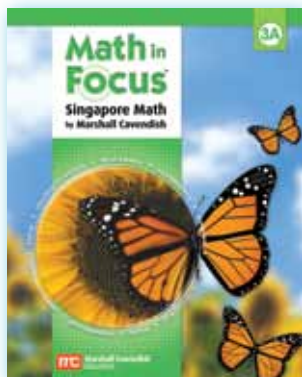
Grade K



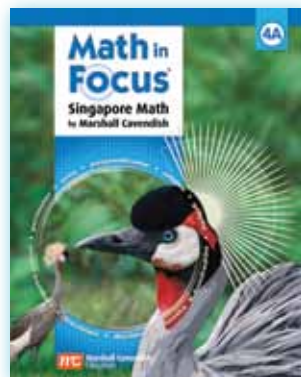
Grade 1



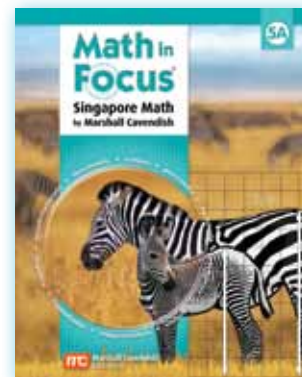
Grade 2



Grade 3



Grade 4



Grade 5

***Math in Focus<sup>®</sup>: Singapore Math by Marshall Cavendish is the U.S. Edition of Singapore's most widely used program.***

## Key Differences and Distinguishing Characteristics

### Articulated Sequence

*Math in Focus* answers the call for a coherent sequence of topics giving students time to master foundational topics, so that little repetition is required the next year. Thus, each grade level covers fewer topics but in more depth, and you won't find all topics in every grade level.

- **“Missing topics”** When a topic appears to be “missing,” you can be assured that it is found in either an earlier or later grade level. For example you will find calendar concepts in Grades K and 1, but not repeated in Grade 2.
- **More advanced** As a result of not repeating topics year after year, students who use *Math in Focus* will advance faster than students in other programs. As a result, you may find topics that seem to be “too advanced.” However, you will find your students easily able to handle the challenge as long as they have had the appropriate preliminary instruction.

### Preparation for Algebra

*Math in Focus* answers the call to prepare students for algebra. As recommended by the National Math Panel, the *Math in Focus* sequence of topics emphasizes:

- **Number sense, basic facts, and computation** An early understanding of composition and decomposition of numbers is developed in tandem with mastery of basic facts and computation algorithms in Grades K–2.
- **Fractions and proportional reasoning** Significant time is allocated for in-depth work with fractions in Grades 3–5.
- **Problem solving** Challenging problem solving is built into each chapter in every grade level.

### Developmental Continuum

#### Kindergarten

#### Grades 1–2

#### Grades 3–5

Foundational concepts through songs, rhymes, and hands-on activities

Concept and skill development through hands-on instruction and practice

- basic facts
- place value
- mental math
- geometry concepts

Emphasis on problem solving, skill consolidation, and a deep understanding in preparation for algebra

- fractions
- decimals
- ratios
- model drawing
- expressions, equations, and inequalities

Kindergarten

Grade 1

Grade 2

Number and Operations

<p><b>Sets and Numbers</b></p>	<p>Use concrete models to create a set with a given number of objects (up to 20).</p> <p>Use cardinal and ordinal numbers.</p>	<p>Use concrete and pictorial models to create a set with a given number of objects (up to 100).</p> <p>Group objects and numbers up to 100 in tens and ones.</p> <p>Use cardinal numbers up to 100 and ordinal numbers up to 10<sup>th</sup>.</p>	<p>Use concrete and pictorial models to create a set with a given number of objects (up to 1,000).</p> <p>Group objects and numbers up to 1,000 into hundreds, tens, and ones.</p> <p>Group objects into equal sized groups.</p>
<p><b>Number Representation</b></p>	<p>Use numbers to represent quantities up to 20.</p>	<p>Use number bonds to represent number combinations.</p> <p>Represent numbers to 100 on a number line.</p>	<p>Use place value models to create equivalent representations of numbers.</p> <p>Represent numbers to 1,000 on a number line.</p>
<p><b>Count</b></p>	<p>Count up to 20 objects in a set.</p> <p>Count on and back to 20.</p> <p>Count in 2s and 5s up to 20.</p>	<p>Count to 100.</p> <p>Count by 1s, 2s, 5s, and 10s forward and backward to 100.</p>	<p>Count to 1,000.</p> <p>Count by multiples of ones, tens, and hundreds.</p>
<p><b>Compare and Order</b></p>	<p>Compare and order sets and numbers up to 20.</p> <p>Compare and order using the terms <i>fewer</i>, <i>more</i>, and <i>less</i>.</p>	<p>Compare and order whole numbers to 100.</p> <p>Compare and order using the terms <i>same</i>, <i>more</i>, <i>fewer</i>, <i>greater than</i>, <i>less than</i>, <i>equal to</i>, <i>greatest</i>, and <i>least</i>.</p>	<p>Compare and order whole numbers to 1,000.</p> <p>Use <math>&lt;</math>, <math>&gt;</math>, and <math>=</math> to compare whole numbers.</p>
<p><b>Place Value</b></p>		<p>Use place value models and place value charts to represent numbers to 100.</p>	<p>Use base-ten models and place value charts to represent numbers to 1,000.</p>

Grade 3

Grade 4

Grade 5

## Number and Operations

**Sets and Numbers**

Explore negative numbers in context.

**Number Representation**

Represent numbers to 10,000 in different equivalent forms.

Represent numbers to 100,000 in various contexts.

Understand place value concepts through millions.

**Count**

Count to 10,000.

Count by hundreds and thousands.

Count by thousands and ten thousands.

Count by hundred thousands and millions.

**Compare and Order**

Compare and order whole numbers to 10,000.

Compare and order whole numbers to 100,000.

Compare and order whole numbers to 10,000,000.

**Place Value**

Use place value models to read, write, and represent numbers to 10,000.

Express numbers to 100,000 in standard, expanded, and word forms.

Express numbers to 10,000,000 in various forms.

## Kindergarten

## Grade 1

## Grade 2

## Number and Operations (continued)

<b>Place Value (continued)</b>		Express numbers to 100 in standard and word forms.	Express numbers to 1,000 in terms of place value.  Compose and decompose multi-digit numbers (including expanded form).
<b>Fraction Concepts</b>			Connect geometric concepts with unit fractions—halves, thirds, and fourths.  Understand the relationship between a fraction and a whole.  Compare and order halves, thirds, and fourths using bar models.
<b>Money</b>	Identify and relate coin values (penny, nickel, dime, quarter).  Count and make coin combinations.	Identify and relate coin values (penny, nickel, dime, quarter).  Count and make coin combinations.	Identify \$1, \$5, \$10, and \$20 bills.  Count and make combinations of coins and bills.  Compare money amounts.
<b>Decimal Concepts</b>			Use the dollar sign and decimal point.

Grade 3

Grade 4

Grade 5

## Number and Operations (continued)

**Place Value  
(continued)****Fraction  
Concepts**

Understand the meanings and uses of fractions including fraction of a set.

Understand that the size of a fractional part is relative to the size of the whole.

Compare fractions using models and number lines.

Identify equivalent fractions through the use of models, multiplication, division, and number lines.

Add and subtract like fractions.

Recognize, write, name, and illustrate mixed numbers and improper fractions.

Find a fraction of a set.

Generate equivalent fractions.

Convert among mixed numbers and improper fractions.

Convert fractions to decimals.

Relate fractions and division expressions.

**Money**

Add and subtract money.

Solve real-world problems involving addition and subtraction of money.

**Decimal  
Concepts**

Use the dollar sign and decimal point in money amounts.

Model decimals using tenths and hundredths.

Model decimals using thousandths.

Kindergarten

Grade 1

Grade 2

Number and Operations (continued)

**Decimal Concepts (continued)**

**Ratio, Proportion, and Percent**

**Whole Number Computation: Addition and Subtraction**

Model joining and separating sets.

Use +, -, and = to write number sentences for addition and subtraction stories.

Model addition and subtraction situations.

Use models, numbers, and symbols for addition and subtraction facts to 20.

Use the order, grouping, and zero properties to develop addition and subtraction fact strategies.

Add and subtract up to 2-digit numbers with and without regrouping

Model addition and subtraction with place value.

Recall addition and subtraction facts.

Use different methods to develop fluency in adding and subtracting multi-digit numbers.

Add and subtract whole numbers to 1,000.



Grade 3

Grade 4

Grade 5

## Number and Operations (continued)

**Decimal Concepts (continued)**

Understand decimal notation through hundredths as an extension of the base-ten system.

Read and write decimals that are greater than or less than 1.

Compare and order decimals.

Identify equivalent decimals.

Connect equivalent fractions and decimals.

Understand place value concepts through thousandths.

Convert decimals to fractions.

**Ratio, Proportion, and Percent**

Use ratios to solve problems.

Find equivalent ratios.

Solve problems with percent.

Convert fractions to percents.

Find a percent of a number.

**Whole Number Computation: Addition and Subtraction**

Model regrouping in addition and subtraction with place value.

Add and subtract whole numbers to 10,000.

## Kindergarten

## Grade 1

## Grade 2

## Number and Operations (continued)

<b>Whole Number Computation: Addition and Subtraction Real-World Problems</b>	Represent addition and subtraction stories.	Formulate addition and subtraction stories.  Solve addition and subtraction problems using basic facts.	Solve multi-digit addition and subtraction problems by using a bar model.
<b>Whole Number Computation: Multiplication and Division Concepts</b>	Count by 2s and 5s up to 20.	Count by 2s, 5s, and 10s.  Adding the same number to multiply.  Represent sharing equally and making equal groups.	Multiply and divide with 2, 3, 4, 5, and 10.  Represent multiplication as repeated addition.  Represent division as repeated subtraction.  Use the $\times$ , $\div$ , and $=$ symbols to represent multiplication and division situations.
<b>Whole Number Computation: Multiplication and Division Algorithms</b>			

Grade 3

Grade 4

Grade 5

## Number and Operations (continued)

**Whole Number  
Computation:  
Addition and  
Subtraction  
Real-World  
Problems**

Solve addition and subtraction problems with greater numbers by using a bar model.

**Whole Number  
Computation:  
Multiplication  
and Division  
Concepts**

Multiply and divide with 6, 7, 8, and 9.

Represent multiplication in different ways.

Represent division in different ways.

Apply understanding of models for multiplication and division.

Recall multiplication facts and related division facts.

**Whole Number  
Computation:  
Multiplication  
and Division Al-  
gorithms**

Multiply 1s, 10s, and 100s with and without regrouping.

Use addition and multiplication properties to multiply.

Divide 10s and 1s with and without regrouping, no remainder.

Develop fluency in multiplying multi-digit numbers.

Divide by a 1-digit number, with a remainder.

Multiply multi-digit numbers.

Find quotients involving multi-digit dividends.

Kindergarten

Grade 1

Grade 2

Number and Operations (continued)

**Whole Number  
Computation:  
Multiplication  
and Division  
Real-World  
Problems**

Use bar models to represent multiplication and division situations.

Solve multiplication and division fact problems.

**Fraction  
Computation**

Add and subtract like fractions (halves, thirds, fourths).

**Decimal  
Computation**

Add and subtract money.

Solve addition and subtraction money problems.

**Estimation and  
Mental Math**

Use mental math strategies to add and subtract.

Use mental math strategies to add and subtract.

## Grade 3

## Grade 4

## Grade 5

## Number and Operations (continued)

<b>Whole Number Computation: Multiplication and Division Real-World Problems</b>	<p>Use bar models to represent multiplication and division situations.</p> <p>Solve one- and two-step multiplication and division problems.</p>	<p>Solve multi-digit multiplication and division problems.</p>	<p>Solve multiplication and division problems.</p> <p>Select the most useful form of the quotient and interpret the remainder.</p>
<b>Fraction Computation</b>	<p>Add and subtract like fractions.</p>	<p>Add and subtract unlike fractions.</p>	<p>Add and subtract unlike fractions and mixed numbers.</p> <p>Multiply proper fractions, improper fractions, mixed numbers, and whole numbers.</p> <p>Divide fractions by whole numbers.</p> <p>Solve word problems with addition, subtraction, multiplication, and division of fractions.</p>
<b>Decimal Computation</b>	<p>Add and subtract money amounts.</p>	<p>Add and subtract decimals.</p> <p>Solve problems with addition and subtraction of decimals.</p>	<p>Add and subtract decimals.</p> <p>Multiply and divide decimals by whole numbers.</p> <p>Solve problems with multiplication and division of decimals.</p>
<b>Estimation and Mental Math</b>	<p>Use mental math strategies to add subtract, multiply, and divide.</p>	<p>Use mental math and estimation strategies to find sums, differences, products, and quotients.</p>	<p>Use estimation and mental math to estimate sums, differences, products, and quotients.</p>

Kindergarten

Grade 1

Grade 2

Number and Operations (continued)

**Estimation and Mental Math (continued)**

Estimate quantity by using referents.

Round to the nearest ten to estimate sums and differences.

Algebra

**Patterns**

Describe and extend repeating shape patterns.

Count by 2s and 5s.

Describe a rule for sorting objects.

Find missing terms in repeating patterns.

Identify, describe, and extend two- and three-dimensional shape patterns.

Skip count by 2s, 5s, and 10s.

Identify a rule for sorting objects.

Identify and extend growing and repeating patterns.

Find missing terms in growing and repeating patterns.

Describe, extend, and create two-dimensional shape patterns.

Skip count by 2s, 3s, 4s, 5s, and 10s.

Identify rules for number patterns.

Find missing terms in table patterns.

**Properties**

Identify 0 as the identity element for addition and subtraction.

Use the Associative and Commutative Properties of Addition.

Understand that addition and subtraction are inverse operations.

Apply properties of addition.

Use the Distributive Property as a multiplication strategy.

**Number Theory**

Identify odd and even numbers.

## Grade 3

## Grade 4

## Grade 5

## Number and Operations (continued)

**Estimation and Mental Math (continued)**

Use front-end estimation and rounding to estimate sums and differences.

Decide whether an estimate or exact answer is needed.

Use estimation in determining relative sizes of amounts or distances.

Estimate sums and differences with fractions and decimals.

Round and estimate with decimals.

Estimate products and quotients with decimals.

## Algebra

**Patterns**

Create and analyze multiplication and division patterns.

Skip count by 6s, 7s, 8s, and 9s.

Analyze number and counting patterns.

Identify, describe, and extend numeric and non-numeric patterns.

Use a rule to describe a sequence of numbers or objects.

Identify, describe, and extend numeric patterns involving all operations.

Find rules to complete number patterns.

**Properties**

Understand that multiplication and division are related.

Create and analyze multiplication and division patterns.

Model, define, and explain properties of multiplication.

Represent division as the inverse of multiplication.

**Number Theory**

Identify odd and even numbers.

Find the greatest common factor and least common multiple.

Identify prime and composite numbers.

## Kindergarten

## Grade 1

## Grade 2

Algebra (continued)			
<b>Functional Relationships</b>		Understand the relationships between the numbers in fact families.	Recognize how bar models show relationships between numbers and unknowns in number sentences.
<b>Expressions/ Models</b>		Use a variety of concrete, pictorial, and symbolic models for addition and subtraction.	Use a variety of concrete, pictorial, and symbolic models for addition, subtraction, multiplication, and division.
<b>Number Sentences and Equations</b>	Model addition and subtraction stories with addition and subtraction number sentences.	Model addition and subtraction situations by writing addition and subtraction number sentences.	Model multiplication and division situations by writing multiplication and division number sentences.  Use bar models and number sentences to represent real-world problems.  Determine the value of missing quantities in number sentences.
<b>Equality and Inequality</b>	Understand the meaning of the = sign in number sentences.	Understand the difference between equality and inequality.	Use and create models that demonstrate equality or inequality.  Use $<$ , $>$ , and $=$ to write number sentences.
Geometry			
<b>Size and Position</b>	Understand big, middle- sized, and small.	Describe position with left and right.	



## Grade 3

## Grade 4

## Grade 5

## Algebra (continued)

<b>Functional Relationships</b>	<p>Understand the relationships between the numbers in multiplication and division fact families.</p> <p>Describe number relationships in context.</p>	<p>Understand the relationships between the numbers and symbols in formulas for area and perimeter.</p> <p>Describe number relationships in context.</p>	<p>Understand the relationships between the numbers and symbols in formulas for surface area and volume.</p> <p>Describe number relationships in context.</p>
<b>Expressions/ Models</b>	<p>Use a variety of concrete, pictorial, and symbolic models for multi-digit addition, subtraction, multiplication, and division.</p>	<p>Use a variety of concrete, pictorial, and symbolic models for multiplication and division; and addition and subtraction with fractions and decimals.</p>	<p>Use letters as variables.</p> <p>Simplify algebraic expressions.</p> <p>Use the order of operations in numeric expressions with two or more operations.</p>
<b>Number Sentences and Equations</b>	<p>Write multiplication and division number sentences.</p> <p>Write and solve number sentences for one- and two-step real-world problems.</p> <p>Determine the missing parts (quantities or symbols) in number sentences.</p>	<p>Write and solve number sentences for one-, two-, and three-step real-world problems.</p> <p>Use bar models and number sentences for one-, two-, and three-step real-world problems.</p> <p>Determine the missing parts (quantities or symbols) in number sentences.</p>	<p>Write and solve number sentences and equations for one- and two-step real-world problems.</p> <p>Write and solve equations.</p> <p>Graph linear equations.</p>
<b>Equality and Inequality</b>	<p>Understand equality and inequality.</p> <p>Write and solve inequalities.</p>	<p>Understand equality and inequality.</p>	<p>Understand equality and inequality.</p>
<b>Geometry</b>			
<b>Size and Position</b>			

Kindergarten

Grade 1

Grade 2

Geometry (continued)

<p><b>Size and Position (continued)</b></p>	<p>Describe and compare objects by position.</p>	<p>Use positional words to describe location.</p>	
<p><b>Lines and Angles</b></p>			<p>Identify parts of lines and curves.</p>
<p><b>Two-Dimensional Shapes</b></p>	<p>Identify similarities and differences.</p>		
	<p>Name flat shapes that make up real-world objects.</p> <p>Identify, describe, sort, and classify two-dimensional shapes.</p> <p>Make flat shape pictures.</p> <p>Compare areas using non-standard units.</p>	<p>Identify real-world two-dimensional shapes.</p> <p>Identify and describe attributes and properties of two-dimensional shapes.</p> <p>Sort and classify two-dimensional shapes.</p> <p>Compose and decompose two-dimensional shapes.</p>	<p>Identify, describe, sort, and classify two-dimensional shapes.</p> <p>Identify parts of lines and curves.</p> <p>Compose and decompose two-dimensional shapes.</p> <p>Develop foundations for understanding area.</p>
<p><b>Three-Dimensional Shapes</b></p>	<p>Name and sort solid shapes.</p> <p>Understand that three-dimensional shapes are made up of two-dimensional shapes.</p>	<p>Identify real-world three-dimensional shapes.</p> <p>Identify two-dimensional shapes in three-dimensional shapes.</p>	<p>Identify, describe, sort, and classify three-dimensional shapes.</p>

## Grade 3

## Grade 4

## Grade 5

## Geometry (continued)

	Grade 3	Grade 4	Grade 5
<b>Size and Position (continued)</b>			
<b>Lines and Angles</b>	<p>Identify perpendicular and parallel lines.</p> <p>Identify right angles and compare angles to right angles.</p>	<p>Draw perpendicular and parallel lines.</p> <p>Construct and measure angles.</p>	<p>Work with angles on a straight line.</p> <p>Work with angles at a point.</p>
<b>Two-Dimensional Shapes</b>	<p>Describe, analyze, compare, and classify two-dimensional shapes by their sides and angles.</p> <p>Classify and sort polygons and quadrilaterals by attributes and properties.</p> <p>Investigate composing and decomposing two-dimensional shapes.</p> <p>Use attributes and properties to solve problems.</p> <p>Find and compare the area of plane figures in different square units.</p>	<p>Apply the properties of squares and rectangles.</p> <p>Find unknown angle measures and side lengths of squares and rectangles.</p> <p>Identify figures that form tessellations.</p> <p>Understand the relationships between the numbers and symbols in formulas for area and perimeter.</p>	<p>Apply the properties of right, isosceles, and equilateral triangles.</p> <p>Apply the sum of the angle measures of a triangle.</p> <p>Apply the properties of a parallelogram, rhombus, and trapezoid.</p> <p>Demonstrate that the sum of any two side lengths of a triangle is greater than the length of the third side.</p> <p>Find the area of a triangle.</p>
<b>Three-Dimensional Shapes</b>			<p>Identify and classify prisms and pyramids.</p> <p>Identify the solid that can be made from a net.</p>

Kindergarten

Grade 1

Grade 2

Geometry (continued)

**Three-Dimensional Shapes (continued)**

Sort and classify three-dimensional shapes.

Identify surfaces that slide, stack, and roll.

Recognize shapes from different perspectives.

Compose and decompose three-dimensional shapes.

**Congruence and Symmetry**

Develop initial understanding of congruence and symmetry.

**Transformations**

**Coordinate Geometry**

Measurement

**Length and Distance**

Compare lengths and heights using non-standard units.

Compare two lengths by comparing each with a third length (transitivity).

Demonstrate linear measure as an iteration of units.

Compare and order lengths (long, short, longest, shortest).

Use a start line to measure length.

Use rulers to measure length.

Develop a background for measurement using non-standard units.

Measure lengths, using non-standard units.

Measure lengths in meters, centimeters, feet, and inches.

Explain the need for equal-length units to measure.

Grade 3

Grade 4

Grade 5

### Geometry (continued)

#### Three-Dimensional Shapes (continued)

Identify cylinders, spheres, and cones.

Describe cylinders, spheres, and cones by the number of and types of faces, and the number of edges and vertices.

Build solids using unit cubes.

#### Congruence and Symmetry

Identify symmetrical figures and one line of symmetry.

Solve problems involving congruency.

Identify line and rotational symmetry.

Relate rotational symmetry to turns and congruency.

#### Transformations

Identify pairs of shapes that show a flip, slide, and turn.

Demonstrate that figures and their flip, slide, and turn images are congruent.

Use transformations to form tessellations.

#### Coordinate Geometry

Develop coordinate readiness with tables and line graphs.

Plot points on a coordinate grid.

### Measurement

#### Length and Distance

Select appropriate units and tools to estimate and measure length.

Use meter sticks, 12-inch rulers, and yardsticks to measure length.

Measure length to the nearest half inch and inch.

Use referents to estimate distance.

Kindergarten

Grade 1

Grade 2

Measurement (continued)

**Length and Distance (continued)**

Explain the need for equal-length units to measure.

Count length units in groups of 10s and 1s.

Compare measurements made using different units.

Understand the inverse relationship between the size of a unit and the number of units.

Compare and measure lengths using customary and metric units.

Demonstrate partitioning and transitivity in relation to length.

Solve problems involving estimating, measuring, and computing length.

**Weight/Mass**

Order objects by weight.

Compare weights using non-standard units.

Compare and measure weights using non-standard units.

Compare two masses by comparing each with a third mass (transitivity).

Solve weight problems.

Compare and measure masses.

Solve mass problems.

**Capacity/Volume**

Compare capacities using non-standard units.

Measure volume (capacity) in liters.

Solve volume problems.

Grade 3

Grade 4

Grade 5

## Measurement (continued)

**Length and Distance (continued)**

Estimate and measure length, distance, and height in meters, centimeters, and kilometers.

Convert among metric units of length.

Solve one- and two-step real-world problems in measurement.

**Weight/Mass**

Select appropriate units and tools to estimate and measure weight.

Use referents to estimate weight.

Estimate and find masses of objects.

Convert among units of mass.

**Capacity/Volume**

Select appropriate tools and units to estimate and measure volume and capacity.

Determine the volume and capacity of a container.

Relate the units of customary capacity to one another.

Use referents to estimate capacity.

**Kindergarten****Grade 1****Grade 2****Measurement (continued)****Capacity/  
Volume  
(continued)****Time**

Name and order the days of the week and the months of the year.

Compare durations of events.

Read a calendar to identify the days of the week, months, and seasons of the year.

Recognize the correct way to write the date.

Tell time to the hour and half hour.

Use A.M. and P.M. to write time.

Tell time to five minutes.

Find elapsed time.

**Temperature****Angles****Perimeter**



## Grade 3

## Grade 4

## Grade 5

Measurement (continued)			
<b>Capacity/ Volume (continued)</b>	<p>Estimate and measure capacity in liters and milliliters.</p> <p>Convert among metric units of capacity.</p>		
<b>Time</b>	<p>Read time on a digital clock.</p> <p>Convert between hours and minutes.</p> <p>Determine elapsed time.</p> <p>Add and subtract units of time.</p>		
<b>Temperature</b>	<p>Read a Fahrenheit thermometer.</p> <p>Choose the appropriate tool and unit to measure temperature.</p> <p>Use referents to estimate temperature.</p>		
<b>Angles</b>	<p>Compare angles to right angles.</p>	<p>Estimate and measure angles with a protractor.</p> <p>Classify angles by angle measure.</p> <p>Relate <math>\frac{1}{4}</math>-, <math>\frac{1}{2}</math>-, <math>\frac{3}{4}</math>-, and full turns to the number of right angles.</p>	<p>Apply the idea that the sum of angles on a straight line is <math>180^\circ</math>.</p> <p>Apply the idea that vertical angles are equal in measure.</p> <p>Apply the idea that the sum of angles at a point is <math>360^\circ</math>.</p>
<b>Perimeter</b>	<p>Measure perimeter of plane figures.</p>	<p>Find the perimeter of composite figures.</p>	

Kindergarten

Grade 1

Grade 2

Measurement (continued)

**Perimeter  
(continued)**

**Area**

Compare areas using non-standard units.

Compose and decompose two-dimensional shapes (foundation for understanding area).

Develop foundations for understanding area.

**Surface Area  
and Volume**

Data Analysis

**Classifying and  
Sorting**

Understanding similarities and differences in objects and shapes.

Sort and classify geometric shapes.

Sort and classify two- and three-dimensional shapes by properties.

Sorting and classifying objects using one or two attributes.

Sorting and classifying data in order to make graphs.

Collect and organize data in picture graphs.

## Grade 3

## Grade 4

## Grade 5

## Measurement (continued)

**Perimeter (continued)**

Choose the appropriate tool, unit, and strategy to measure perimeter.

Estimate the perimeter of surfaces and objects.

Solve problems involving the perimeter of squares, rectangles, and composite figures.

**Area**

Find and compare the area of plane figures in different square units.

Make different plane figures with the same area.

Estimate area of small and large surfaces.

Compare the area and perimeter of two plane figures.

Find the area of rectangles and composite figures.

Explain area as an attribute of two-dimensional figures.

Connect area measure to the area model for multiplication; use it to justify the formula for the area of a rectangle.

Estimate and measure area in square units.

Select appropriate units, strategies, and tools to solve area problems.

Explain the relationships among area formulas of different polygons.

Find the area of triangles.

**Surface Area and Volume**

Decompose solid figures to find the surface area.

Estimate and measure volume in cubic units.

## Data Analysis

**Classifying and Sorting**

Classify and sort polygons and quadrilaterals by attributes and properties.

Collect and organize data in bar graphs and line plots.

Construct line plots, stem-and-leaf plots, tables, and line graphs.

Represent data in a double bar graph.

**Kindergarten**

**Grade 1**

**Grade 2**

**Data Analysis (continued)**

<b>Collect and Organize Data</b>	Organize data for a picture graph.	Collect and organize data in different ways.	Collect and organize data in different ways.
<b>Represent Data</b>	Represent data in pictographs.	Represent measurements and data in picture graphs, tally charts, and bar graphs.	Represent data in picture graphs.
<b>Interpret/ Analyze Data</b>	Interpret data in tally charts and pictographs.	Interpret data in picture graphs, tally charts, and bar graphs.  Read bar graphs with scales.  Solve problems involving data.	Interpret picture graphs with scales.   Solve real-world problems using picture graphs.

**Probability**

<b>Outcomes</b>			
<b>Expressing Probability</b>			

**Problem Solving**

<b>Build Skills Through Problem Solving</b>	Build skills in addition and subtraction through problem solving.	Build skills in addition, subtraction, and measurement through problem solving.	Build skills in addition, subtraction, multiplication, division, and measurement through problem solving.
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## Grade 3

## Grade 4

## Grade 5

Data Analysis (continued)			
<b>Collect and Organize Data</b>			
<b>Represent Data</b>			
<b>Interpret/ Analyze Data</b>	<p>Interpret picture and bar graphs with scales.</p> <p>Use frequency tables, bar graphs, picture graphs, and line plots to solve real-world problems.</p>	<p>Interpret tally charts, bar graphs, picture graphs, tables, and line graphs.</p> <p>Find the mean (average), median, mode, and range of a data set.</p>	<p>Analyze data in a double bar graph.</p>
Probability			
<b>Outcomes</b>		<p>Decide whether an outcome is certain, more likely, equally likely, less likely, or impossible.</p>	<p>Determine experimental probability of an outcome.</p>
<b>Expressing Probability</b>		<p>Express the probability of an event as a fraction.</p>	<p>Compare the results of an experiment with theoretical probability.</p> <p>Find all possible combinations by listing, making a tree diagram, and multiplying.</p>
Problem Solving			
<b>Build Skills Through Problem Solving</b>	<p>Build skills in addition, subtraction, multiplication, division, and measurement through problem solving.</p>	<p>Build skills in multiplication, division, fraction concepts, data analysis, and measurement through problem solving.</p>	<p>Build skills in multiplication; division; fraction concepts, decimals, ratios, and percents; data analysis; and measurement through problem solving.</p>

Kindergarten

Grade 1

Grade 2

Problem Solving (continued)			
<b>Solve Real-World Problems</b>	Solve real-world problems involving addition and subtraction.	Solve real-world problems involving addition and subtraction.	Solve real-world problems involving addition, subtraction, multiplication, division, and measurement.
<b>Use Appropriate Strategies and Thinking Skills to Solve Problems</b>		Apply problem solving strategies in Put on Your Thinking Cap! and Problem Solving activities.	Apply problem solving strategies in Put on Your Thinking Cap! and Problem Solving activities.
<b>Apply and Explain Problem Solving</b>	Solve real-world problems.	Apply and explain problem solving processes in Put on Your Thinking Cap! and other activities.	Apply and explain problem solving processes in Put on Your Thinking Cap! and other activities.
<b>Explore Concepts</b>	Use models to explain reasoning.	Explore concepts more deeply and justify reasoning in Let's Explore and Hands-On activities.  Apply Thinking Skills, Put on Your Thinking Cap!, Challenging Practice, and Problem Solving activities.	Explore concepts more deeply and justify reasoning in Let's Explore and Hands-On activities.  Apply Thinking Skills, Put on Your Thinking Cap!, Challenging Practice, and Problem Solving activities.
<b>Investigate Mathematical Ideas</b>	Investigate ideas with two-dimensional shapes.	Further investigate mathematical ideas by completing critical thinking skills activities.	Further investigate mathematical ideas by completing critical thinking skills activities.
<b>Identify, Demonstrate, and Explain Mathematical Proof</b>	Demonstrate that only a few big things fit into small spaces and many small things fit into big spaces.  Describe, sort, and classify two- and three-dimensional shapes.	Explore transitivity by comparing lengths and weights of three different objects.  Identify and describe attributes and properties of two- and three-dimensional shapes.	Demonstrate the inverse relationship between the size of a unit and the number of units.  Identify, describe, sort, and classify two- and three-dimensional shapes.

## Grade 3

## Grade 4

## Grade 5

Problem Solving (continued)			
<b>Solve Real-World Problems</b>	Solve real-world problems involving addition, subtraction, multiplication, division, and measurement.	Solve real-world problems involving multiplication, division, fraction concepts, data analysis, and measurement.	Solve real-world problems involving multiplication; division; concepts with fractions, decimals, ratios, and percents; data analysis; and measurement.
<b>Use Appropriate Strategies and Thinking Skills to Solve Problems</b>	Apply problem solving strategies in Put on Your Thinking Cap! and Problem Solving activities.	Use appropriate strategies to solve real-world problems.	Use appropriate strategies to solve real-world problems.
<b>Apply and Explain Problem Solving</b>	Apply and explain problem solving processes in Put on Your Thinking Cap! and other activities.	Apply and explain problem solving processes in Put on Your Thinking Cap! and other activities.	Apply and explain problem solving processes in Put on Your Thinking Cap! and other activities.
<b>Explore Concepts</b>	Explore concepts more deeply and justify reasoning in Let's Explore and Hands-On activities.  Apply Thinking Skills, Put on Your Thinking Cap!, Challenging Practice, and Problem Solving activities.	Explore concepts more deeply and justify reasoning in Let's Explore and Hands-On activities.  Apply Thinking Skills, Put on Your Thinking Cap!, Challenging Practice, and Problem Solving activities.	Explore concepts more deeply and justify reasoning in Let's Explore and Hands-On activities.  Apply Thinking Skills, Put on Your Thinking Cap!, Challenging Practice, and Problem Solving activities.
<b>Investigate Mathematical Ideas</b>	Further investigate mathematical ideas by completing critical thinking skills activities.	Further investigate mathematical ideas by completing critical thinking skills activities.	Further investigate mathematical ideas by completing critical thinking skills activities.
<b>Identify, Demonstrate, and Explain Mathematical Proof</b>	Demonstrate that figures and their flip, slide, and turn images are congruent.  Identify pairs of shapes that show a flip, slide, and turn.	Show that some figures can be turned and not change shape or size (rotational symmetry).  Use properties of squares and rectangles to solve problems.	Apply the idea that the sum of angles on a straight line is $180^\circ$ .  Apply the idea that the sum of angles at a point is $360^\circ$ .  Explain the relationships among area formulas of different polygons.

Kindergarten

Grade 1

Grade 2

**Problem Solving (continued)**

**Identify, Demonstrate, and Explain Mathematical Proof (continued)**

Interpret data in tally charts and pictographs.

Interpret picture graphs, tally charts, and bar graphs.

Interpret picture graphs with scales.

Identify and extend repeating shape patterns.

Identify and extend growing number patterns and repeating shape patterns.

Identify rules for number patterns.

**Use a Variety of Reasoning Skills**

Sort and classify using attributes.

Recognize shapes from different perspectives.

Identify surfaces that slide, stack, and roll.

Identify similarities and differences.

Use the Commutative and Associative properties, and 10s and 1s to solve two-digit addition and subtraction problems.

Explore the inverse relationship between addition and subtraction.

**Communication**

**Consolidate Mathematical Thinking**

Consolidate thinking in independent activities.

Present mathematical thinking through Math Journal activities.

Present mathematical thinking through Math Journal activities.

**Communicate with Peers, Teachers, and Others**

Discuss mathematical ideas in paired and small-group activities.

Discuss mathematical ideas in Let's Explore activities.

Discuss mathematical ideas in Let's Explore activities.

Work together in pairs or groups in Let's Explore, Games, and other activities.

Work together in pairs or groups in Let's Explore, Games, and other activities.

**Share Mathematical Thinking**

Share mathematical ideas in paired and small-group activities.

Share mathematical ideas with others during Let's Explore and Hands-On activities.

Share mathematical ideas with others during Let's Explore and Hands-On activities.



## Grade 3

## Grade 4

## Grade 5

## Problem Solving (continued)

**Identify, Demonstrate, and Explain Mathematical Proof (continued)**

Interpret bar graphs with scales.

Create and analyze multiplication and division patterns.

Analyze a data set by finding its mean, median, mode, and range.

Identify, describe, and extend numeric and non-numeric patterns.

Compare the results of an experiment to validate the use of theoretical probability.

Identify, describe, and extend numeric patterns involving all operations.

**Use a Variety of Reasoning Skills**

Model, define, and explain properties of multiplication.

Explore the inverse relationship between multiplication and division.

Use estimation to check reasonableness.

Use properties of squares and rectangles to solve problems about area and perimeter.

Use estimation to check reasonableness (whole-number addition, subtraction, multiplication and division).

Explore the relationship among lists, tree diagrams, and multiplication to calculate combinations.

Use properties of multiplication (including the Distributive Property) in estimation and mental math.

## Communication

**Consolidate Mathematical Thinking**

Present mathematical thinking through Math Journal activities.

Present mathematical thinking through Math Journal activities.

Present mathematical thinking through Math Journal activities.

**Communicate with Peers, Teachers, and Others**

Discuss mathematical ideas in Let's Explore activities.

Work together in pairs or groups in Let's Explore, Games, and other activities.

Discuss mathematical ideas in Let's Explore activities.

Work together in pairs or groups in Let's Explore, Games, and other activities.

Discuss mathematical ideas in Let's Explore activities.

Work together in pairs or groups in Let's Explore, Games, and other activities.

**Share Mathematical Thinking**

Share mathematical ideas with others during Let's Explore and Hands-On activities.

Share mathematical ideas with others during Let's Explore and Hands-On activities.

Share mathematical ideas with others during Let's Explore and Hands-On activities.

Kindergarten

Grade 1

Grade 2

Communication (continued)

**Express Mathematical Ideas**

Express ideas in paired and small group activities.

Express ideas in Math Journal activities, using lesson vocabulary.

Express ideas in Math Journal activities, using lesson vocabulary.

Use chapter and lesson vocabulary correctly.

Use chapter and lesson vocabulary correctly.

Connections

**Recognize Connections in Mathematical Ideas**

Understand the connection between quantities and written numerals.

Understand the relationship between counting and addition and subtraction.

Examine and apply the inverse relationship between addition and subtraction.

Understand the relationships among the numbers in fact families.

Connect geometric concepts with unit fractions.

Connect addition and multiplication (repeated addition).

Connect subtraction and division (repeated subtraction).

Recognize and apply different strategies for adding and subtracting one- and two-digit numbers.

Recognize and apply different strategies for multiplication and division facts.

**Understand How Concepts Build on One Another**

Explore relationships among counting, ordering, and ordinal numbers.

Learn how place value concepts apply to regrouping in addition and subtraction.

Understand how patterns can be described using numbers, operations, and data displays.

Recognize the relationship between bar models, number sentences, and number patterns.

## Grade 3

## Grade 4

## Grade 5

## Communication (continued)

**Express Mathematical Ideas**

Express ideas in Math Journal activities, using lesson vocabulary.

Use chapter and lesson vocabulary correctly.

Express ideas in Math Journal activities, using lesson vocabulary.

Use chapter and lesson vocabulary correctly.

Express ideas in Math Journal activities, using lesson vocabulary.

Use chapter and lesson vocabulary correctly.

## Connections

**Recognize Connections in Mathematical Ideas**

Apply the inverse relationship between multiplication and division.

Understand that the size of a fractional part is relative to the size of the whole.

Connect the units of customary capacity to one another.

Understand the relationships between the numbers in multiplication-division fact families.

Demonstrate that decimal notation is an extension of the base-ten system.

Examine the relationship between fractions and decimals.

Make connections among multiplication, division, factors, and multiples.

Convert among mixed numbers and improper fractions.

Relate fractions and division.

Understand the connection among fractions, decimals, ratios, and percents as ways to represent parts of a whole.

Examine the relationships between three-dimensional figures and the two-dimensional figures that form them.

Relate fractions and division.

**Understand How Concepts Build on One Another**

Understand the meanings and uses of fractions including fraction of a set.

Use addition, subtraction, multiplication, and division to construct and analyze graphs, frequency tables, and line plots.

Describe number relationships in context.

Connect equivalent fractions and decimals.

Make connections among the greatest common factor, least common multiple, and operations with fractions.

Explain the relationships among area formulas of different polygons.

Connect equivalent fractions, decimals, and percents.

Kindergarten

Grade 1

Grade 2

Connections (continued)

**Solve Real-World Problems in Contexts Outside of Mathematics**

Solve real-world problems involving more and less.

Solve real-world problems involving addition, subtraction, and measurement.

Solve real-world problems involving addition, subtraction, multiplication, division, measurement, and data analysis.

Representation

**Use Representations to Model, Organize, and Record**

Use concrete models to create a set with a given number of objects (up to 20).

Use concrete and pictorial models to create a set with a given number of objects (up to 100).

Use concrete and pictorial models to create a set with a given number of objects (up to 1,000).

Use numbers and numerals to represent quantities up to 20.

Represent numbers to 100 on a number line.

Represent numbers to 1,000 on a number line.

Use picture cards to communicate understanding of comparisons (bigger and smaller).

Use number bonds to represent numbers.

Understand the meaning of the = sign in number sentences.

Understand equality and inequality.

Use symbolic notation (< and >) to compare numbers.

Model addition and subtraction stories with addition and subtraction number sentences.

Use the +, −, and = symbols to represent real-world addition and subtraction situations.

Use bar models to represent addition and subtraction situations.

Represent addition and subtraction stories.

Represent numerical data using picture graphs, tally charts, and bar graphs.

Represent numerical data using picture graphs with scales, tally charts, and bar graphs.

Represent sharing equally and making equal groups.

Use the ×, ÷, and = symbols to represent multiplication and division situations.

## Grade 3

## Grade 4

## Grade 5

## Connections (continued)

**Solve Real-World Problems in Contexts Outside of Mathematics**

Solve real-world problems involving addition, subtraction, multiplication, division, and measurement.

Solve real-world problems related to money.

Solve real-world problems involving multiplication, division, fraction concepts, data analysis, and measurement.

Solve real-world problems involving multiplication; division; fraction, decimal, ratio, and percent concepts; data analysis; and measurement.

Compare experimental results and theoretical probability.

## Representation

**Use Representations to Model, Organize, and Record**

Use place value models to read, write, and represent numbers to 10,000.

Represent numbers in different equivalent forms.

Use the dollar sign and decimal point in money amounts.

Solve addition and subtraction problems with greater numbers by using a bar model

Represent multiplication and division in different ways.

Use a variety of representations for multiplication and division, such as arrays, area models, number lines, grouping, and sharing.

Represent numbers to 100,000 in various contexts.

Express numbers to 100,000 in standard, expanded, and word forms.

Model decimals to tenths and hundredths.

Write addition and subtraction number sentences for real-world problems with fractions and decimals.

Use models to show relationships between improper fractions and mixed numbers.

Apply understanding of models for multiplication and division.

Explore negative numbers in context.

Express numbers to 10,000,000 in various forms.

Find equivalent ratios.

Explore the use of letters as variables in expressions and inequalities.

Convert fractions and decimals to percents.

Represent combinations with lists, tree diagrams, and multiplication.

Kindergarten

Grade 1

Grade 2

Representation (continued)

<p><b>Use Representations to Model, Organize, and Record (continued)</b></p>	<p>Describe and extend shape patterns.</p> <p>Describe a rule for sorting objects.</p>	<p>Identify, describe, and extend two- and three-dimensional shape patterns.</p> <p>Identify a rule for sorting objects.</p> <p>Identify and extend growing and repeating patterns.</p>	<p>Represent multiplication with skip counting, dot paper arrays, and bar models.</p> <p>Represent division as repeated subtraction sentences.</p> <p>Describe, extend, and create two-dimensional shape patterns.</p> <p>Identify rules for number patterns.</p>
<p><b>Select and Apply Representations to Model Problems</b></p>	<p>Represent quantities with objects, number cubes, and numerals.</p>	<p>Use number bonds to represent number combinations.</p> <p>Use a variety of concrete, pictorial, and symbolic models for addition and subtraction.</p>	<p>Use place value models to create equivalent representations of numbers.</p> <p>Use a variety of concrete, pictorial, and symbolic models for addition, subtraction, multiplication, and division.</p> <p>Represent multiplication with skip counting and arrays.</p>
<p><b>Interpret Phenomena through Representations</b></p>	<p>Show understanding of big, middle-sized, small, and same size.</p> <p>Describe and compare objects by position.</p>	<p>Measure and compare lengths and weights using non-standard units.</p> <p>Use positional words to describe location.</p>	<p>Use metric and customary units to measure length, volume (capacity), weight, and mass.</p>

## Grade 3

## Grade 4

## Grade 5

## Representation (continued)

<b>Use Representations to Model, Organize, and Record (continued)</b>	<p>Determine the missing parts (quantities or symbols) in number sentences.</p> <p>Create and analyze multiplication and division patterns.</p> <p>Identify a rule for number and counting patterns.</p>	<p>Write addition and subtraction number sentences for real-world problems with fractions and decimals.</p> <p>Use a rule to describe a sequence of numbers or objects.</p>	<p>Write and solve equations.</p> <p>Find rules to complete number patterns.</p>
<b>Select and Apply Representations to Model Problems</b>	<p>Use a variety of models to represent fractions and equivalent fractions.</p> <p>Use a variety of concrete, pictorial, and symbolic models for multi-digit addition, subtraction, multiplication, and division.</p> <p>Use customary units (including fractions) to measure length, weight, and capacity.</p>	<p>Translate between equivalent improper fractions and mixed numbers.</p> <p>Use a variety of models for multi-digit multiplication and division of whole numbers.</p> <p>Use a variety of models for addition and subtraction of fractions and decimals.</p>	<p>Translate between fractions and percents.</p> <p>Select the most useful form of the quotient.</p> <p>Use a net to find the surface area of a prism.</p>
<b>Interpret Phenomena through Representations</b>	<p>Use referents to estimate length, capacity, and weight.</p>	<p>Measure perimeter and area in customary and metric units.</p>	<p>Measure volume of a rectangular prism.</p>

Kindergarten

Grade 1

Grade 2

Representation (continued)

**Interpret Phenomena through Representations (continued)**

Name flat shapes that make up real-world objects.

Identify real-world two- and three-dimensional shapes.

Represent measurements and data in picture graphs and bar graphs.

Represent data in picture graphs.

Represent data in bar graphs and picture graphs.

Order a number of objects according to length, height, or weight.

Solve problems about sharing equally and making equal groups.

Solve real-world problems about social phenomena.

Use one-to-one correspondence.

Use a variety of models for adding and subtracting.

Use bar models to represent addition, subtraction, multiplication, and division situations.

Use technology (virtual manipulatives and computers) to model and draw.

Use technology (virtual manipulatives and computers) to model and draw.



## Grade 3

## Grade 4

## Grade 5

## Representation (continued)

**Interpret  
Phenomena  
through  
Representations  
(continued)**

Use frequency tables, bar graphs, picture graphs, and line plots to solve problems.

Collect data and organize it in a table.

Represent data in a double bar graph.

Create a line graph from data in a table.

Represent an equation as a graphed line.

Solve real-world problems involving social situations.

Use measures of central tendency to describe typical values of data sets (social).

Solve real-world problems related to money.

Solve real-world problems involving multiplication, division, fraction concepts, data analysis, and measurement.

Solve real-world problems involving social situations.

Use technology (virtual manipulatives and computers) to model and draw.

Use technology (virtual manipulatives and computers) to model and draw.

Use technology (virtual manipulatives and computers) to model and draw.

Use a calculator to model, compute, and solve problems.

# Aligned with National and International Research Recommendations

## ► Focus and Depth

### National Council of Teachers of Mathematics

“A curriculum is more than a collection of activities: it must be coherent, focused on important mathematics, and well articulated across the grades.”

—Curriculum Focal Points for Prekindergarten through Grade 8 Mathematics, 2006

### Math in Focus

addresses fewer topics in greater depth at each level.

- Knowledge is built carefully and thoroughly with both *multi-page* lessons and *multi-day* lessons.
- Time is built into the program to develop understanding with *hands-on activities* with manipulatives, as well as *extensive skills practice*.

#### 1 Ways to Add ..... 42

**Learn** Add by counting on • Count to find how many more • Add using number bonds

**Hands-On Activities** Count on to add using connecting cubes • Use ten frames to add (Commutative Property)

**Game** Card Fun!

**Let's Practice and Practice and Apply**

Workbook A: Practice 1 ..... 46–47

**Let's Practice and Practice and Apply**

Workbook A: Practice 2 ..... 50–51

Grade 1, Chapter 3, Lesson 1

## ► Interlocking Concepts and Skills

### National Math Advisory Panel

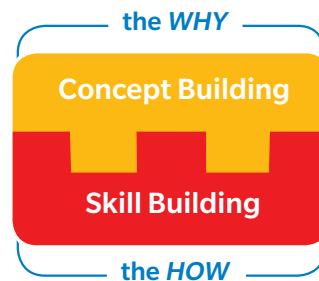
“Use should be made of what is clearly known from rigorous research about how children learn, especially by recognizing the mutually-reinforcing benefits of conceptual understanding, procedural fluency, and automatic (i.e., quick and effortless) recall of facts.”

—Foundations for Success, 2008

### Math in Focus

develops concepts and skills in tandem.

- Manipulatives and visual representations provide a conceptual backbone.
- *Skills are connected to concepts* through visual representations.
- Extensive problem solving *merges conceptual understanding with computational skills*.



## ► Clear Visuals and Use of Models

### National Research Council

“Opportunities should involve connecting symbolic representations and operations with physical or pictorial representations, as well as translating between various symbolic representations.”

—*Adding It Up: Helping Children Learn Mathematics*, 2001

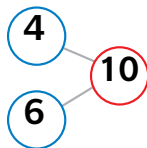
### Math in Focus

uses clear and engaging visuals that present concepts and model solutions.

- *Minimal text* and simple, direct visuals allow all students, regardless of language skills, to focus on the math lesson.
- The use of *model drawings* offer a visual representation of word problems, leading to symbolic solutions of rich and complex problems.
- Consistent use of the *concrete–pictorial–abstract pedagogy* repeatedly “models” the model-drawing problem solving strategy.



**Number Bonds:** a visual for composing and decomposing numbers (Grade 1)



## ► Emphasis on Problem Solving

### Singapore Ministry of Education

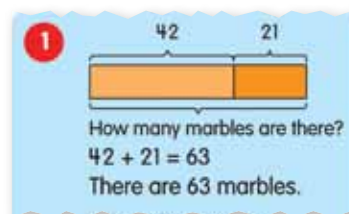
“Mathematical problem solving is central to mathematics learning. It involves the acquisition and application of mathematics concepts and skills in a wide range of situations, including non-routine, open-ended, and real-world problems.”

—*Mathematics Syllabus: Primary*, 2006

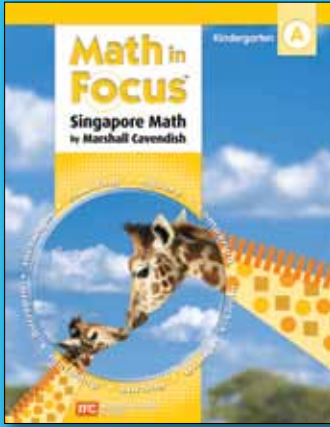
### Math in Focus

uses a scaffolded approach to solving word problems, focusing on model drawing to build success and confidence.

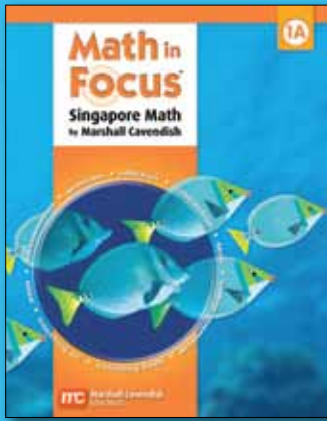
- The visual representation of word problems leads to symbolic solutions of *rich and complex problems*.
- Students draw on prior knowledge, as well as recently acquired concepts and skills, as they combine *problem solving strategies with critical thinking skills*.



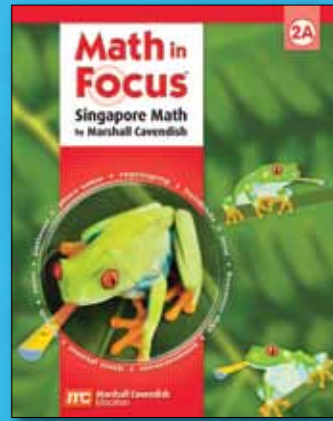
**Bar Model:** a visual representation of a word problem (Grade 2)



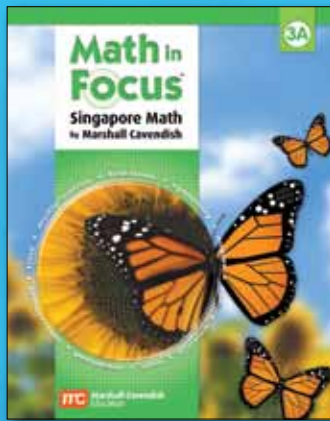
Grade K



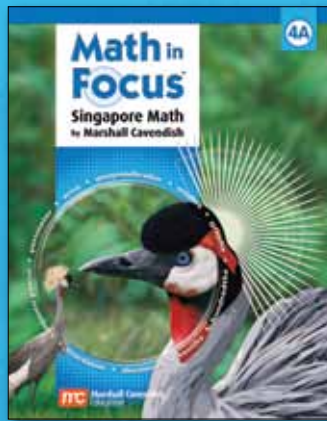
Grade 1



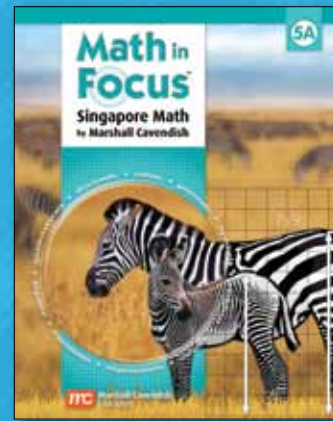
Grade 2



Grade 3



Grade 4



Grade 5

# Math in Focus<sup>™</sup>

## Singapore Math

by Marshall Cavendish

*Math in Focus: Singapore Math by Marshall Cavendish* is the U.S. edition of *My Pals are Here! Maths*, the world-class program most widely used in Singapore classrooms today. Marshall Cavendish math programs have contributed to Singapore's consistent top performance in international studies since 1995.

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