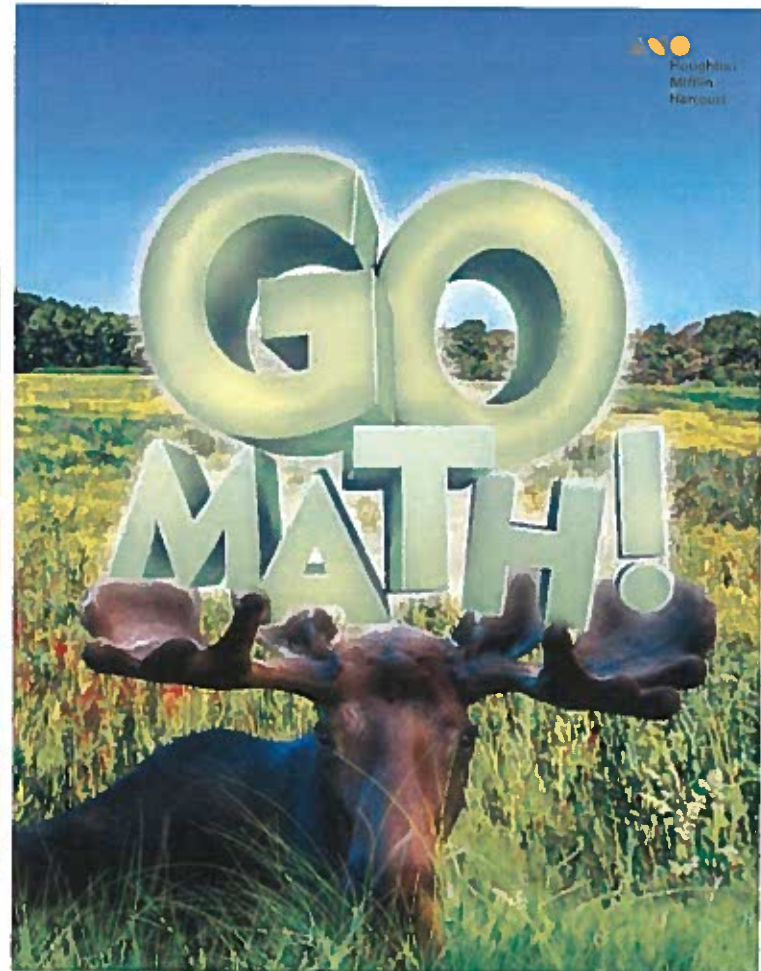
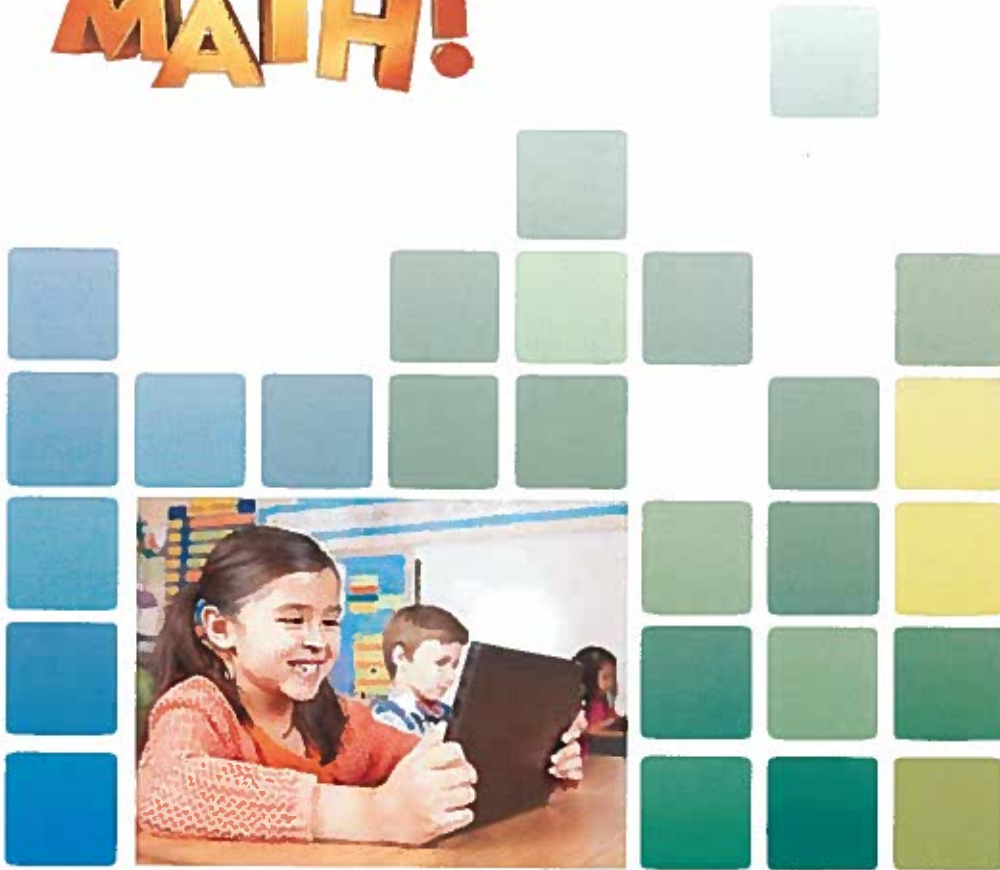


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These activities explain the content of the lesson using a few examples. The last two screens offer practice problems from the *Personal Math Trainer*[®] Powered by Knewton[™].

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Chapter 1: Addition and Subtraction Within 1,000

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Algebra • Number Patterns	✓	✓			Number Charts— Activity 1: Hundred Chart (Show Patterns)	Country Countdown, Block Busters, Level C	Pattern, Identity Property of Addition, Commutative Property of Addition, even, odd
2	Round to the Nearest Ten or Hundred	✓	✓	Round to Nearest Ten, Hundred, and Thousand	1		Numberopolis, Cross Town Number Line, Level U Fraction Action, Number Line Mine, Level C	Round
3	Estimate Sums	✓	✓	Estimate Sums	2			Estimate, compatible numbers
4	Mental Math Strategies for Addition	✓	✓			Number Lines— Activity 5: Explore		
5	Algebra • Use Properties to Add	✓	✓					Associative Property of Addition
6	Use the Break Apart Strategy to Add	✓	✓			Base-Ten Blocks— Activity 3: Add (Hundreds)	Country Countdown, Block Busters, Levels U and V	
7	Use Place Value to Add	✓	✓	Addition With Regrouping Up To 3-Digits	3			
8	Estimate Differences	✓	✓	Estimate Differences	4			
9	Mental Math Strategies for Subtraction	✓	✓			Number Lines— Activity 5: Explore		
10	Use Place Value to Subtract	✓	✓	Subtract 3-Digit Numbers	5	Base-Ten Blocks— Activity 4: Subtract (Hundreds)	Country Countdown, Block Busters, Levels X and Y	
11	Combine Place Values to Subtract	✓	✓					
12	Problem Solving • Model Addition and Subtraction	✓	✓					

Chapter 2: Represent and Interpret Data

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Problem Solving • Organize Data	✓	✓	Collect Data	6			Frequency table, data, tally table
2	Use Picture Graphs	✓	✓			Graphs—Activity 4: Pictograph	The Number Games, ArachnaGraph, Level A Country Countdown, White Water Graphing, Levels C and E	Key, picture graph
3	Make Picture Graphs	✓	✓	Pictographs	7		Country Countdown, White Water Graphing, Level D	Experiment, survey
4	Use Bar Graphs	✓	✓	Read a Bar Graph	8		The Number Games, ArachnaGraph, Level B	Bar graph, scale, horizontal bar graph, vertical bar graph
5	Make Bar Graphs	✓	✓	Make and Interpret Bar Graphs	9	Graphs—Activity 1: Bar Graph (Basic)	Country Countdown, White Water Graphing, Level F The Number Games, ArachnaGraph, Level C	
6	Solve Problems Using Data	✓	✓				The Number Games, ArachnaGraph, Level B	Skip count
7	Use and Make Line Plots	✓	✓			Graphs—Activity 5: Line Plot	The Number Games, ArachnaGraph, Level E	Line plot

Chapter 3: Understand Multiplication

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Count Equal Groups	✓	✓	Algebra: Relate Addition and Multiplication	10	Counters—Activity 5: Multiply Number Lines—Activity 3: Skip Count Number Lines—Activity 4: Multiply	Country Countdown, Counting Critters, Level V Numberopolis, Carnival Stories, Level S	Equal groups
2	Algebra • Relate Addition and Multiplication	✓	✓			Counters—Activity 5: Multiply Number Lines—Activity 4: Multiply	Country Countdown, Counting Critters, Level V	Multiply, factor, product, addition
3	Skip Count on a Number Line	✓	✓	Multiply with 3	11	Number Lines—Activity 4: Multiply Number Lines—Activity 5: Explore	Numberopolis, Cross Town Number Line, Levels K, Q, & R	
4	Problem Solving • Model Multiplication	✓	✓			Counters—Activity 5: Multiply	Country Countdown, Counting Critters, Level W	
5	Model with Arrays	✓	✓					Array
6	Algebra • Commutative Property of Multiplication	✓	✓	Algebra: Model with Arrays	12	Number Charts—Activity 3: Multiplication Chart		Commutative Property of Multiplication
7	Algebra • Multiply with 1 and 0	✓	✓	Multiply with 1 and 0	13	Number Lines—Activity 4: Multiply	The Number Games, Up, Up, and Array, Levels A and C	Identity Property of Multiplication, Zero Property of Multiplication

Chapter 4: Multiplication Facts and Strategies

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Multiply with 2 and 4	✓	✓	Multiplication with 0, 1, 2, and 4	14	Base-Ten Blocks—Activity 5: Multiply Counters—Activity 5: Multiply Number Lines—Activity 4: Multiply		factor, product
2	Multiply with 5 and 10	✓	✓	Multiply with 2 and 5	15	Counters—Activity 5: Multiply Number Lines—Activity 4: Multiply	Country Countdown, Counting Critters, Level Z The Number Games, Up, Up, and Array, Levels A and I Numberopolis, Carnival Stories, Level S	Multiple
3	Multiply with 3 and 6	✓	✓	Multiply with 3, 5, 6, and 10	16	Counters—Activity 5: Multiply Number Lines—Activity 4: Multiply Number Charts—Activity 3: Multiplication Chart	The Number Games, Up, Up, and Array, Level A Numberopolis, Carnival Stories, Level S	
4	Algebra • Distributive Property	✓	✓				Country Countdown, Counting Critters, Level W	Distributive Property, addend, sum
5	Multiply with 7	✓	✓			Base-Ten Blocks—Activity 5: Multiply Counters—Activity 5: Multiply		Commutative Property of Multiplication
6	Algebra • Associative Property of Multiplication	✓	✓	Algebra: Multiply 3 Factors	17			Associative Property of Multiplication
7	Algebra • Patterns on the Multiplication Table	✓	✓			Number Charts—Activity 3: Multiplication Chart		Even, odd
8	Multiply with 8	✓	✓			Counters—Activity 5: Multiply Number Lines—Activity 4: Multiply	The Number Games, Up, Up, and Array, Level B	
9	Multiply with 9	✓	✓	Multiply with 7, 8, and 9	18	Base-Ten Blocks—Activity 5: Multiply Counters—Activity 5: Multiply	The Number Games, Up, Up, and Array, Level C	Subtraction
10	Problem Solving • Multiplication	✓	✓				Ice Station Exploration, Arctic Algebra, Level D	

Chapter 5: Use Multiplication Facts

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Algebra • Describe Patterns	✓	✓	Algebra: Find a Rule	19		Ice Station Exploration, Arctic Algebra, Level D	Pattern
2	Algebra • Find Unknown Factors	✓	✓	Algebra: Missing Factors	20	Number Charts—Activity 3: Multiplication Chart	Ice Station Exploration, Arctic Algebra, Level C	Equation, array, Commutative Property of Multiplication, factor, product
3	Problem Solving • Use the Distributive Property	✓	✓					Distributive Property
4	Multiplication Strategies with Multiples of 10	✓	✓			Base-Ten Blocks—Activity 5: Multiply Number Lines—Activity 4: Multiply		Multiple, place value, tens
5	Multiply Multiples of 10 by 1-Digit Numbers	✓	✓	Multiply by Tens	21	Base-Ten Blocks—Activity 5: Multiply	The Number Games, Up, Up, and Array, Level I	Hundreds, ones

Chapter 6: Understand Division

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Problem Solving • Model Division	✓	✓			Counters— Activity 6: Divide	Country Countdown, Counting Critters, Level AA	
2	Size of Equal Groups	✓	✓	Model Division	22	Base-Ten Blocks— Activity 6: Divide	Country Countdown, Counting Critters, Level X Numberopolis, Carnival Stories, Level T	Divide, equal groups
3	Number of Equal Groups	✓	✓			Counters— Activity 5: Multiply	Country Countdown, Counting Critters, Level Y Numberopolis, Carnival Stories, Level U	
4	Model with Bar Models	✓	✓			Counters— Activity 6: Divide Base-Ten Blocks— Activity 6: Divide	Country Countdown, Counting Critters, Levels X and Y Numberopolis, Carnival Stories, Levels T and U	Dividend, divisor, quotient
5	Algebra • Relate Subtraction and Division	✓	✓			Relate Division and Subtraction	23	Base-Ten Blocks— Activity 6: Divide
6	Investigate • Model with Arrays	✓	✓			Counters— Activity 1: Count		Array
7	Algebra • Relate Multiplication and Division	✓	✓	Algebra: Multiplication and Division	24	Number Charts— Activity 3: Multiplication Chart Counters— Activity 6: Divide		Inverse operations
8	Algebra • Write Related Facts	✓	✓	Algebra: Fact Families	25	Counters— Activity 6: Divide		Related facts, factor, product
9	Algebra • Division Rules for 1 and 0	✓	✓	Division Rules	26			Identity Property of Multiplication

Chapter 7: Division Facts and Strategies

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Divide by 2	✓	✓	Divide by 2 and 5	27	Counters—Activity 6: Divide	Ice Station Exploration, Arctic Algebra, Level E	
2	Divide by 10	✓	✓			Number Lines—Activity 5: Explore Number Charts—Activity 3: Multiplication Chart	The Number Games, Up, Up, and Array, Level G	Dividend, divisor, factor, product
3	Divide by 5	✓	✓	Divide by 2 and 5	27	Number Lines—Activity 5: Explore Counters—Activity 6: Divide	Country Countdown, Counting Critters, Level AA	
4	Divide by 3	✓	✓	Divide by 3 and 4	28	Number Lines—Activity 5: Explore Counters—Activity 6: Divide Number Charts—Activity 3: Multiplication Chart	The Number Games, Up, Up, and Array, Level E	Array
5	Divide by 4	✓	✓			Counters—Activity 5: Multiply Counters—Activity 6: Divide Number Charts—Activity 3: Multiplication Chart		
6	Divide by 6	✓	✓	Divide by 6, 7, and 8	29	Counters—Activity 6: Divide Number Charts—Activity 3: Multiplication Chart	The Number Games, Up, Up, and Array, Level F	
7	Divide by 7	✓	✓					
8	Divide by 8	✓	✓					
9	Divide by 9	✓	✓				The Number Games, Up, Up, and Array, Level G	
10	Problem Solving • Two-Step Problems	✓	✓			Counters—Activity 6: Divide		
11	Investigate • Order of Operations	✓	✓			Counters—Activity 5: Multiply Counters—Activity 6: Divide Number Charts—Activity 3: Multiplication Chart	Ice Station Exploration, Arctic Algebra, Level Q	Order of operations

Chapter 8: Understand Fractions

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Equal Parts of a Whole	✓	✓	Equal Parts	30	Fractions—Activity 1: Show (Fraction Circles)		Whole, equal parts, halves, thirds, fourths, sixths, eighths
2	Equal Shares	✓	✓			Fractions—Activity 1: Show (Two-Color Counters) Fractions—Activity 1: Show (Fraction Circles)	Fraction Action, Fraction Flare Up, Levels B and C	
3	Unit Fractions of a Whole	✓	✓	Unit Fractions	31	Fractions—Activity 1: Show (Fraction Circles)	Shapes Ahoy! Ship Shapes, Levels R and S Fraction Action, Fraction Flare Up, Level B	Fraction, unit fraction
4	Fractions of a Whole	✓	✓	Part of a Whole	34	Fractions—Activity 1: Show (Fraction Bars)	Shapes Ahoy! Ship Shapes, Level T Fraction Action, Fraction Flare Up, Level B	Numerator, denominator
5	Fractions on a Number Line	✓	✓			Fractions—Activity 1: Show (Fraction Bars)		
6	Relate Fractions and Whole Numbers	✓	✓	Mixed Numbers	33	Fractions—Activity 1: Show (Fraction Circles) Fractions—Activity 1: Show (Fraction Bars)	Fraction Action, Number Line Mine, Level F	Fraction greater than 1
7	Fractions of a Group	✓	✓	Part of a Group	34	Fractions—Activity 1: Show (Two-Color Counters) Fractions—Activity 1: Show (Fraction Circles)	Fraction Action, Fraction Flare Up, Levels B and C Shapes Ahoy! Ship Shapes, Levels R, S, and T	
8	Find Part of a Group Using Unit Fractions	✓	✓			Fractions—Activity 1: Show (Two-Color Counters)		
9	Problem Solving • Find the Whole Group Using Unit Fractions	✓	✓			Fractions—Activity 1: Show (Fraction Bars)	Fraction Action, Fraction Flare Up, Levels B and C	

Chapter 9: Compare Fractions

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Problem Solving • Compare Fractions	✓	✓					Compare, equal to (=), greater than (>), less than (<)
2	Compare Fractions with the Same Denominator	✓	✓			Number Lines—Activity 5: Explore (Fractions; Compare; Fraction Bars)	Fraction Action, Fraction Flare Up, Level F Fraction Action, Number Line Mine, Level I	Denominator
3	Compare Fractions with the Same Numerator	✓	✓	Compare Unit Fractions	36	Fractions—Activity 2: Compare (Fraction Circles) Fractions—Activity 2: Compare (Fraction Bars)	Shapes Ahoy, Ship Shapes, Level V	Numerator
4	Compare Fractions	✓	✓	Compare Fractions	35	Fractions—Activity 2: Compare (Fraction Circles)	Fraction Action, Fraction Flare Up, Level F Fraction Action, Number Line Mine, Level I	
5	Compare and Order Fractions	✓	✓			Fractions—Activity 2: Compare (Fraction Bars)		Order
6	Investigate • Model Equivalent Fractions	✓	✓	Equivalent Fractions	37	Fractions—Activity 2: Compare (Fraction Circles)	Fraction Action, Fraction Flare Up, Level D	Equivalent fractions, equivalent
7	Equivalent Fractions	✓	✓			Fractions—Activity 2: Compare (Fraction Bars)	Fraction Action, Number Line Mine, Level E	

Chapter 10: Time, Length, Liquid Volume, and Mass

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Time to the Minute	✓	✓	Tell Time	38	Measurement— Activity 3: Clocks (Time on a Clock)	Country Countdown, Clock-a-Doodle-Do, Level J	Minute, analog clock, digital clock, half hour, hour, quarter hour
2	AM and PM	✓	✓	AM and PM	39		Midnight, noon, A.M., P.M.	
3	Measure Time Intervals	✓	✓	Model Elapsed Time	40	Measurement— Activity 3: Clocks (Elapsed Time) Number Lines— Activity 5: Explore	Country Countdown, Clock-a-Doodle-Do, Level K The Number Games, Tiny's Think Tank, Level D	Elapsed time
4	Use Time Intervals	✓	✓					
5	Problem Solving • Time Intervals	✓	✓					
6	Measure Length	✓	✓	Estimate and Measure Inches	41		Ice Station Exploration, Linear Lab, Levels C, D, and F	Inch (in.)
7	Estimate and Measure Liquid Volume	✓	✓	Metric Capacity	42	Measurement— Activity 2: Equivalent Measures (Weight/Mass)		Liquid volume, liter (L)
8	Estimate and Measure Mass	✓	✓	Mass	43		Mass, gram (g), kilogram (kg)	
9	Solve Problems About Liquid Volume and Mass	✓	✓			Number Lines— Activity 5: Explore		

Chapter 11: Perimeter and Area

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Investigate • Model Perimeter	✓	✓	Estimate and Measure Perimeter	44	Geometry—Activity 3: Area and Perimeter (Rectangle)	Ice Station Exploration, Polar Planes, Level P	Perimeter
2	Find Perimeter	✓	✓					
3	Algebra • Find Unknown Side Lengths	✓	✓	Relate Perimeter and Area	45			
4	Understand Area	✓	✓	Area of Plane Figures	46	Geometry—Activity 3: Area and Perimeter (Explore)	Ice Station Exploration, Polar Planes, Level Q	Area, unit square, square unit
5	Measure Area	✓	✓					
6	Use Area Models	✓	✓					
7	Problem Solving • Area of Rectangles	✓	✓			Geometry—Activity 3: Area and Perimeter (Rectangle)		Pattern
8	Area of Combined Rectangles	✓	✓					Distributive Property
9	Same Perimeter, Different Areas	✓	✓	Relate Perimeter and Area	45	Geometry—Activity 3: Area and Perimeter (Rectangle)	Ice Station Exploration, Polar Planes, Level S	
10	Same Area, Different Perimeters	✓	✓					

Chapter 12: Two-Dimensional Shapes

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Vocabulary
				Activity Name	Skill Number			
1	Describe Plane Shapes	✓	✓	Points, Lines, and Rays	47	Geometry—Activity 2: Plane Figures (Sides and Vertices) Geometry—Activity 5: Draw (Segments, Lines, and Rays)		Plane shape, point, line, line segment, endpoint, ray, two-dimensional shape, closed shape, open shape
2	Describe Angles in Plane Shapes	✓	✓			Geometry—Activity 2: Plane Figures (Sides and Vertices) Geometry—Activity 5: Draw (Angles) Measurement—Activity 3: Clocks (Time on a Clock)		Angle, vertex, right angle
3	Identify Polygons	✓	✓	Identify Plane Figures	48	Geometry—Activity 2: Plane Figures (Sides and Vertices) Geometry—Activity 5: Draw (Polygons) Geometry—Activity 6: Explore (Plane Figures)	Ice Station Exploration, Polar Planes, Level D Shapes Ahoy! Ship Shapes, Level J Shapes Ahoy! Sea Cave Sorting, Level K	Polygon, side, quadrilateral, pentagon, hexagon, octagon, decagon, triangle
4	Describe Sides of Polygons	✓	✓	Types of Lines	49	Geometry—Activity 5: Draw (Segments, Lines, and Rays)	Ice Station Exploration, Polar Planes, Level C	Intersecting lines, perpendicular lines, parallel lines
5	Classify Quadrilaterals	✓	✓	Quadrilaterals	50	Geometry—Activity 2: Plane Figures (Sides and Vertices) Geometry—Activity 5: Draw (Polygons)	Ice Station Exploration, Polar Planes, Level G Shapes Ahoy! Sea Cave Sorting, Level K	Rhombus, trapezoid, rectangle, square
6	Draw Quadrilaterals	✓	✓					
7	Describe Triangles	✓	✓					
8	Problem Solving • Classify Plane Shapes	✓	✓					
9	Investigate—Relate Shapes, Fractions, and Area	✓	✓			Geometry—Activity 3: Area and Perimeter (Explore)	Shapes Ahoy! Ship Shapes, Level S	Area, unit fraction

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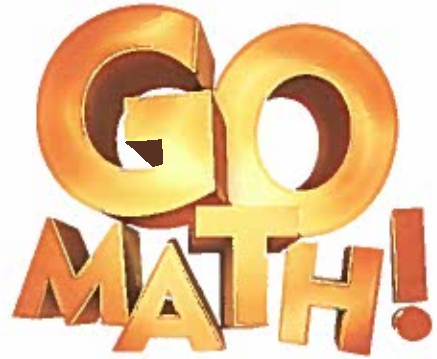


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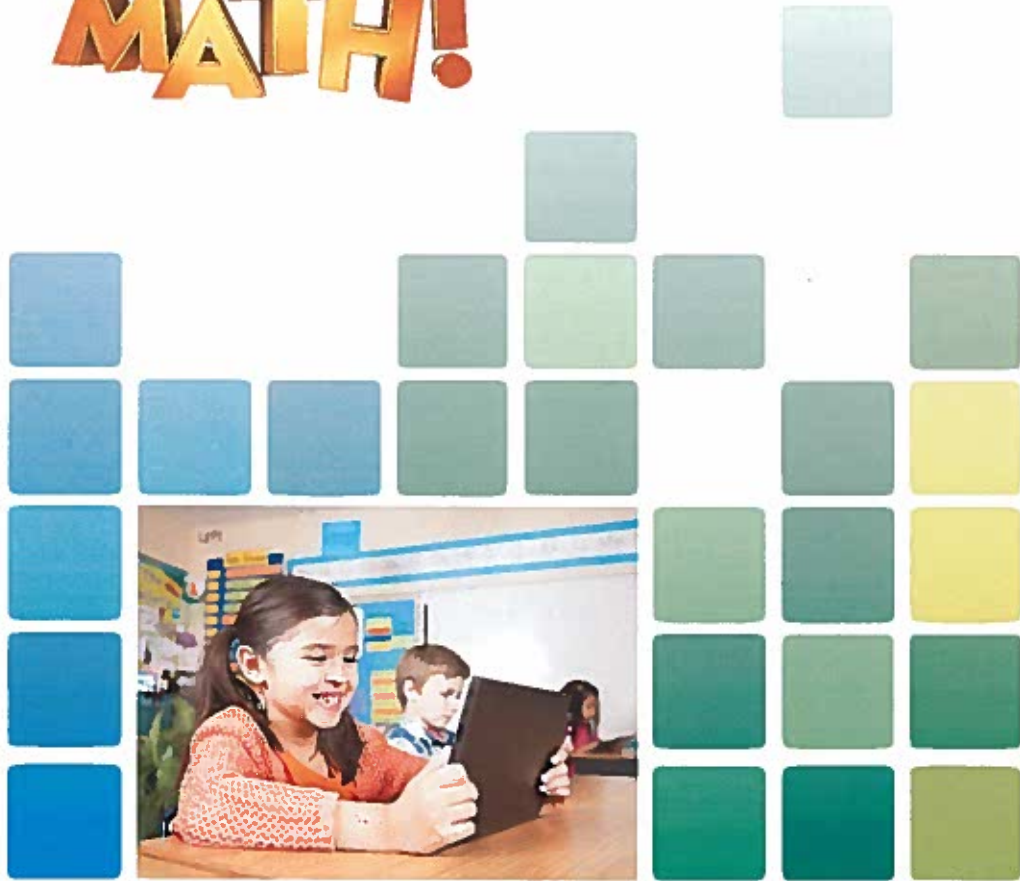
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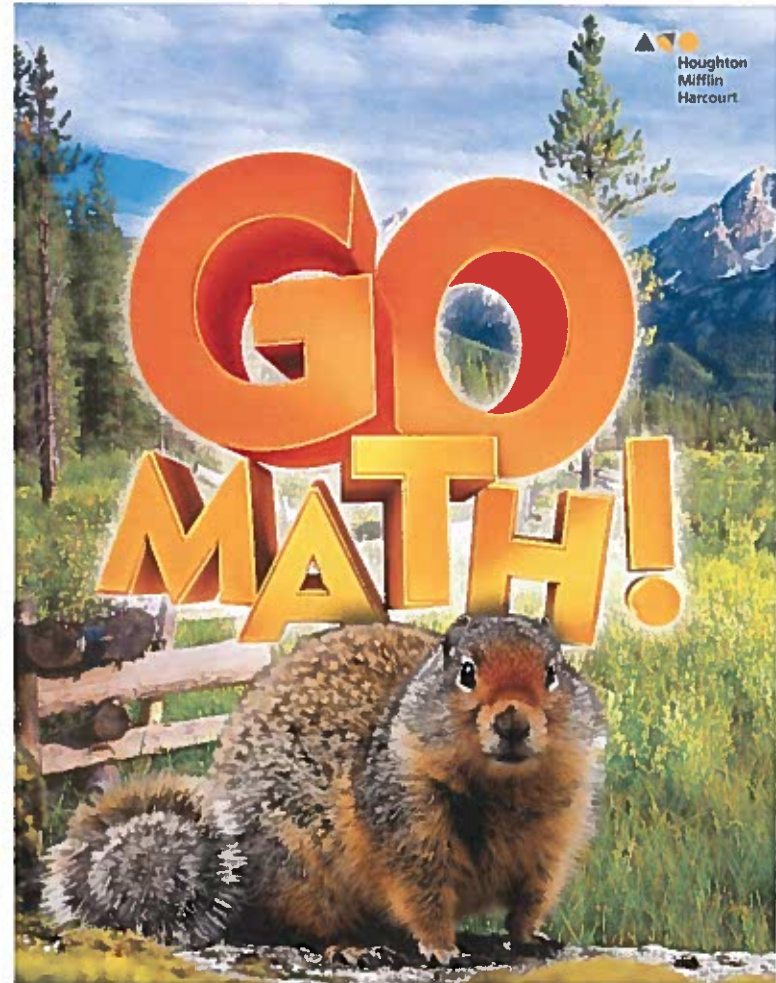
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Chapter 1: Place Value, Addition, and Subtraction to One Million

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Model Place Value Relationships	✓	✓			Base-Ten Blocks—Activity 1: Show (Thousands) Base-Ten Blocks—Activity 1: Show (Explore)	The Numbers Games, Tiny's Think Tank, Level A	1
2	Read and Write Numbers	✓	✓					2
3	Compare and Order Numbers	✓	✓	Compare Whole Numbers Order Whole Numbers	2 3	Base-Ten Blocks—Activity 2: Compare	Country Countdown, Harrison's Comparisons, Level M Numberopolis, Cross Town Number Line, Level V	3
4	Round Numbers	✓	✓	Round Numbers	4		Fraction Action, Number Line Mine, Level C	4
5	Investigate • Rename Numbers	✓	✓			Base-Ten Blocks—Activity 1: Show (Thousands)		5
6	Add Whole Numbers	✓	✓			Base-Ten Blocks—Activity 3: Add (Hundreds)	Country Countdown, Block Busters Level V The Numbers Games, Tiny's Think Tank, Level B	6
7	Subtract Whole Numbers	✓	✓	Add and Subtract up to 4 Digits	5	Base-Ten Blocks—Activity 4: Subtract (Hundreds)	Country Countdown, Block Busters Level Y The Numbers Games, Tiny's Think Tank, Level C	7
8	Problem Solving • Comparison Problems with Addition and Subtraction	✓	✓					8

Chapter 2: Multiply by 1-Digit Numbers

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Algebra • Multiplication Comparisons	✓	✓			Counters—Activity 5: Multiply		1
2	Algebra • Comparison Problems	✓	✓			Counters—Activity 5: Multiply Counters—Activity 4: Subtract	Numberopolis; Carnival Stories, Level O	2
3	Multiply Tens, Hundreds, and Thousands	✓	✓	Multiples of 10, 100, and 1,000	16	Number Charts—Activity 1: Hundred Chart (Number Pattern) Base-Ten Blocks—Activity 5: Multiply Number Lines—Activity 4: Multiply		3
4	Estimate Products	✓	✓	Estimate Products Mental Math: Estimate Products	17 23	Number Lines—Activity 5: Explore		4
5	Investigate • Multiply Using the Distributive Property	✓	✓	Multiplication Properties	15	Base-Ten Blocks—Activity 5: Multiply		5
6	Multiply Using Expanded Form	✓	✓			Base-Ten Blocks—Activity 1: Show (Explore)		6
7	Multiply Using Partial Products	✓	✓			Base-Ten Blocks—Activity 5: Multiply		7
8	Multiply Using Mental Math	✓	✓	Multiplication Properties	15	Measurement—Activity 5: Money (Show Amounts)		8
9	Problem Solving • Multistep Multiplication Problems	✓	✓					9
10	Multiply 2-Digit Numbers with Regrouping	✓	✓	Multiply 2-Digit by 1-Digit Numbers	18	Base-Ten Blocks—Activity 5: Multiply		10
11	Multiply 3-Digit and 4-Digit Numbers with Regrouping	✓	✓	Multiply 3-Digit Numbers	20		The Number Games, Up, Up, and Array, Level J	11
12	Algebra • Solve Multistep Problems Using Equations	✓	✓				Ice Station Exploration, Arctic Algebra, Level Q	12

Chapter 3: Multiply 2-Digit Numbers

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Multiply by Tens	✓	✓	Multiply by Tens	22	Number Charts—Activity 3: Multiplication Chart Base-Ten Blocks—Activity 5: Multiply Number Lines—Activity 4: Multiply	The Number Games, Up, Up, and Array, Levels C and I	1
2	Estimate Products	✓	✓	Mental Math: Estimate Products	23	Base-Ten Blocks—Activity 5: Multiply Number Lines—Activity 5: Explore		2
3	Investigate • Area Models and Partial Products	✓	✓			Base-Ten Blocks—Activity 5: Multiply Number Charts—Activity 3: Multiplication Chart		3
4	Multiply Using Partial Products	✓	✓			Base-Ten Blocks—Activity 5: Multiply		4
5	Multiply with Regrouping	✓	✓	Multiply by 2-Digit Numbers	24	Base-Ten Blocks—Activity 5: Multiply	The Number Games, Up, Up, and Array, Level K	5
6	Choose a Multiplication Method	✓	✓			Number Charts—Activity 3: Multiplication Chart		6
7	Problem Solving • Multiply 2-Digit Numbers	✓	✓			Base-Ten Blocks—Activity 5: Multiply Base-Ten Blocks—Activity 4: Subtract		7

Chapter 4: Divide by 1-Digit Numbers

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Estimate Quotients Using Multiples	✓	✓			Number Charts—Activity 1: Hundred Chart (Add)		1
2	Investigate • Remainders	✓	✓	Model Division With Remainders	25	Counters—Activity 6: Divide	The Number Games, Up, Up, and Array, Level L	2
3	Interpret the Remainder	✓	✓					3
4	Divide Tens, Hundreds, and Thousands	✓	✓	Division Patterns	26			4
5	Estimate Quotients Using Compatible Numbers	✓	✓	Estimate With 1-Digit Divisors	27	Number Charts—Activity 3: Multiplication Chart		5
6	Investigate • Division and the Distributive Property	✓	✓			Base-Ten Blocks—Activity 6: Divide		6
7	Investigate • Divide Using Repeated Subtraction	✓	✓	Relate Division and Subtraction	39	Counters—Activity 4: Subtract		7
8	Divide Using Partial Quotients	✓	✓					8
9	Investigate • Model Division with Regrouping	✓	✓			Base-Ten Blocks—Activity 6: Divide Counters—Activity 6: Divide		9
10	Place the First Digit	✓	✓	Place the First Digit	29	Base-Ten Blocks—Activity 6: Divide	The Number Games, Up, Up, and Array, Levels M and N	10
11	Divide by 1-Digit Numbers	✓	✓	Divide by 1-Digit Divisors Zeros in Division	30 11	Algebra—Activity 2: Input/Output Table	The Number Games, Up, Up, and Array, Levels O and P	11
12	Problem Solving • Multistep Division Problems	✓	✓					12

Chapter 5: Factors, Multiples, and Patterns

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Model Factors	✓	✓	Factors and Multiples	7	Counters—Activity 1: Count (Counters) Number Charts—Activity 3: Multiplication Chart		1
2	Factors and Divisibility	✓	✓			Number Charts—Activity 3: Multiplication Chart	Ice Station Exploration, Arctic Algebra, Levels M and N	2
3	Problem Solving • Common Factors	✓	✓					
4	Factors and Multiples	✓	✓	Factors and Multiples	7	Numbers Charts; Hundred Chart; Show Patterns	Ice Station Exploration, Arctic Algebra, Levels M and N	4
5	Prime and Composite Numbers	✓	✓	Prime and Composite Numbers	3	Counters—Activity 6: Divide Numbers Charts—Activity 1: Hundred Chart (Number Patterns)		5
6	Algebra • Number Patterns	✓	✓	Number Patterns	10		The Numbers Games, Tiny's Think Tank, Level K	6

Chapter 6: Fraction Equivalence and Comparison

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Investigate • Equivalent Fractions	✓	✓			Fractions—Activity 2: Compare (Fraction Bars) Fractions—Activity 2: Compare (Fraction Circles) Fractions—Activity 1: Show (Fraction Circles)	Fraction Action, Fraction Flare Up, Level D Fraction Action, Number Line Mine, Level E	1
2	Generate Equivalent Fractions	✓	✓	Equivalent Fractions	36	Fractions—Activity 2: Compare (Fraction Bars) Fractions—Activity 2: Compare (Fraction Circles)		2
3	Simplest Form	✓	✓	Simplest Form	72	Fractions—Activity 7: Explore (Fraction Bars)	Fraction Action, Fraction Flare Up, Level E	3
4	Common Denominators	✓	✓			Fractions—Activity 7: Explore (Fraction Circles)		4
5	Problem Solving • Find Equivalent Fractions	✓	✓	Equivalent Fractions	36		Fraction Action, Fraction Flare Up, Level D Fraction Action, Number Line Mine, Level E	5
6	Compare Fractions Using Benchmarks	✓	✓	Compare Fractions	50	Fractions—Activity 2: Compare (Fraction Bars) Fractions—Activity 2: Compare (Fraction Circles)	Shapes Ahoy! Ship Shapes, Level V Fraction Action, Fraction Flare Up, Level F	6
7	Compare Fractions	✓	✓				Fraction Action, Number Line Mine, Level I	7
8	Compare and Order Fractions	✓	✓	Compare and Order Fractions	43	Number Lines—Activity 5: Explore	Fraction Action, Fraction Flare Up, Level F Fraction Action, Number Line Mine, Level I	8

Chapter 7: Add and Subtract Fractions

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Investigate • Add and Subtract Parts of a Whole	✓	✓			Fractions—Activity 1: Show (Fraction Circles) Fractions—Activity 7: Explore (Fraction Bars) Fractions—Activity 7: Explore (Fraction Circles)		1
2	Write Fractions as Sums	✓	✓			Fractions—Activity 1: Show (Fraction Bars) Fractions—Activity 1: Show (Fraction Circles)		2
3	Add Fractions Using Models	✓	✓	Add Like Fractions	45	Fractions—Activity 1: Show (Fraction Bars) Fractions—Activity 3: Add (Fraction Bars)	Fraction Action, Fraction Flare Up, Level G	3
4	Subtract Fractions Using Models	✓	✓	Subtract Like Fractions	46	Fractions—Activity 4: Subtract (Fraction Bars) Fractions—Activity 4: Subtract (Fraction Circles)	Fraction Action, Fraction Flare Up, Level H	4
5	Add and Subtract Fractions	✓	✓	Add and Subtract Like Fractions	47	Fractions—Activity 3: Add (Fraction Bars) Fractions—Activity 4: Subtract (Fraction Bars)	Fraction Action, Fraction Flare Up, Levels G and H	5
6	Rename Fractions and Mixed Numbers	✓	✓	Rename Fractions and Mixed Numbers	29	Fractions—Activity 7: Explore (Fraction Bars)	Fraction Action, Number Line Mine, Level F	6
7	Add and Subtract Mixed Numbers	✓	✓	Add and Subtract Mixed Numbers	32	Fractions—Activity 7: Explore (Fraction Circles)		7
8	Subtraction with Renaming	✓	✓	Subtraction with Renaming	33	Fractions—Activity 7: Explore (Fraction Bars)		8
9	Algebra • Fractions and Properties of Addition	✓	✓					9
10	Problem Solving • Multistep Fraction Problems	✓	✓			Fractions—Activity 7: Explore (Fraction Circles)		10

Chapter 8: Multiply Fractions by Whole Numbers

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Multiples of Unit Fractions	✓	✓			Fractions—Activity 1: Show (Fraction Bars) Fractions—Activity 1: Show (Fraction Circles)	Shapes Ahoy, Ship Shapes, Levels R and S Fraction Action, Fraction Flare Up, Levels A and B	1
2	Multiples of Fractions	✓	✓				2	
3	Multiply a Fraction by a Whole Number Using Models	✓	✓	Multiply Fractions and Whole Numbers	41		3	
4	Multiply a Fraction or Mixed Number by a Whole Number	✓	✓	Multiply Fractions and Whole Numbers	41	Fractions—Activity 1: Show (Fraction Bars)	Fraction Action, Number Line Mine, Levels F and L	4
5	Problem Solving • Comparison Problems with Fractions	✓	✓	Rename Fractions and Mixed Numbers	73			5

Chapter 9: Relate Fractions and Decimals

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Relate Tenths and Decimals	✓	✓	Model Tenths	37	Number Lines—Activity 5: Explore		1
2	Relate Hundredths and Decimals	✓	✓	Model Hundredths	38		Fraction Action, Fraction Flare Up, Level L Fraction Action, Number Line Mine, Level N	2
3	Equivalent Fractions and Decimals	✓	✓	Equivalent Decimals	41		Fraction Action, Fraction Flare Up, Level M	3
4	Relate Fractions, Decimals, and Money	✓	✓	Relate Fractions, Decimals, and Money	40	Measurement—Activity 5: Money (Show Amounts) Measurement—Activity 5: Money (Explore)	Fraction Action, Number Line Mine, Level N	4
5	Problem Solving • Money	✓	✓					5
6	Add Fractional Parts of 10 and 100	✓	✓					6
7	Compare Decimals	✓	✓			Fractions—Activity 2: Compare (Fraction Bars) Number Lines—Activity 5: Explore	Fraction Action, Number Line Mine, Level P	7

Chapter 10: Two-Dimensional Figures

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Lines, Rays, and Angles	✓	✓	Points, Lines, and Rays	55	Geometry—Activity 5: Draw (Segments, Lines, and Rays) Geometry—Activity 5: Draw (Angles)	Ice Station Exploration, Polar Planes, Level B	1
				Classify Angles	56			
2	Classify Triangles	✓	✓			Geometry—Activity 5: Draw (Polygons)		2
3	Parallel Lines and Perpendicular Lines	✓	✓	Types of Lines	58	Geometry—Activity 5: Draw (Segments, Lines, and Rays)	Ice Station Exploration, Polar Planes, Level C	3
4	Classify Quadrilaterals	✓	✓	Quadrilaterals	56	Geometry—Activity 5: Draw (Polygons) Geometry—Activity 6: Explore (Plane and Solid Figures)	Ice Station Exploration, Polar Planes, Level G	4
5	Line Symmetry	✓	✓	Symmetry	61	Geometry—Activity 2: Plane Figures (Symmetry)	Ice Station Exploration, Polar Planes, Levels J and K Shapes Ahoy!, Ship Shapes, Levels M and N	5
6	Find and Draw Lines of Symmetry	✓	✓					6
7	Problem Solving • Shape Patterns	✓	✓	Geometric Patterns	62	Counters—Activity 8: Explore (Make Patterns)	Shapes Ahoy, Ship Shapes, Level B The Numbers Games, Tiny’s Think Tank, Levels J and U	7

Chapter 11: Angles

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Investigate • Angles and Fractional Parts of a Circle	✓	✓			Geometry—Activity 5: Draw (Segments, Lines, and Rays) Fractions—Activity 7: Explore (Fraction Circles)		1
2	Degrees	✓	✓			Geometry—Activity 5: Draw (Angles) Fractions—Activity 7: Explore (Fraction Circles)		2
3	Measure and Draw Angles	✓	✓	Measure and Classify Angles	58	Geometry—Activity 5: Draw (Angles)		3
4	Investigate • Join and Separate Angles	✓	✓					4
5	Problem Solving • Unknown Angle Measures	✓	✓					5

Chapter 12: Relative Sizes of Measurement Units

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Measurement Benchmarks	✓	✓				Ice Station Exploration, Linear Lab, Levels E and I	1
2	Customary Units of Length	✓	✓	Length	48	Measurement—Activity 2: Equivalent Measures (Length)	Ice Station Exploration, Linear Lab, Level E Shapes Ahoy! Made to Measure, Level J The Numbers Games, Tiny's Think Tank, Level M	2
3	Customary Units of Weight	✓	✓	Customary Weight	61	Measurement—Activity 2: Equivalent Measures (Weight/Mass) Measurement—Activity 1: Balance and Scale (Balance)	The Numbers Games, Tiny's Think Tank, Level O	3
4	Customary Units of Liquid Volume	✓	✓	Customary Capacity	60	Measurement—Activity 2: Equivalent Measures (Capacity)	The Numbers Games, Tiny's Think Tank, Level N	4
5	Line Plots	✓	✓			Graphs—Activity 6: Line Plot	The Numbers Games, ArachnaGraph, Levels E and F	5
6	Investigate • Metric Units of Length	✓	✓	Metric Length Change Metric Linear Units	49 52		Ice Station Exploration, Linear Lab, Levels H, I, and J Shapes Ahoy!, Made to Measure, Level I	6
7	Metric Units of Mass and Liquid Volume	✓	✓	Mass Metric Capacity	50 51		The Numbers Games, Tiny's Think Tank, Level Q	7
8	Units of Time	✓	✓	Change Units of Time	64	Measurement—Activity 3: Clocks (Time on a Clock)		8
9	Problem Solving • Elapsed Time	✓	✓	Elapsed Time on a Clock	54	Measurement—Activity 3: Clocks (Elapsed Time)	The Numbers Games, Tiny's Think Tank, Level D Country Countdown, Clock-a-Doodle-Do, Level K	9
10	Mixed Measures	✓	✓			Measurement—Activity 2: Equivalent Measures (Capacity) Measurement—Activity 2: Equivalent Measures (Weight/Mass) Measurement—Activity 2: Equivalent Measures (Length)	The Numbers Games, Tiny's Think Tank, Levels M, N, and O	10
11	Algebra: Patterns in Measurement Units	✓	✓			Measurement—Activity 2: Equivalent Measures (Length)		11

Chapter 13: Algebra: Perimeter and Area

Lesson Number	Lesson Title	Interactive Student Edition	Math on the Spot Video	Animated Math Models		iTools	Mega Math	Lesson Number
				Activity Name	Skill Number			
1	Perimeter	✓	✓	Find Perimeter	64		Ice Station Exploration, Polar Planes, Level P	1
2	Area	✓	✓	Area of Plane Figures	63	Geometry—Activity 3: Area and Perimeter (Rectangle) Geometry—Activity 3: Area and Perimeter (Explore)	Ice Station Exploration, Polar Planes, Level Q	2
				Use a Formula to Find Area	65			
				Find Area	66			
3	Area of Combined Rectangles	✓	✓	Perimeter and Area of Complex Figures	67	Geometry—Activity 3: Area and Perimeter (Explore)	Ice Station Exploration, Polar Planes, Level R Shapes Ahoy, Ship Shapes, Level X	3
4	Find Unknown Measures	✓	✓			Geometry—Activity 3: Area and Perimeter (Rectangle)		4
5	Problem Solving • Find the Area	✓	✓					5

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