



# Sequencing Guide

## Ready® Mathematics to Math Expressions © 2013 Grades K-5

The following tables show the alignment of Ready® Mathematics lessons to Math Expressions © 2013 for Grades K-5. We recommend that teachers use the Ready lesson(s) listed alongside each textbook lesson to target and reinforce the standard(s) shown in parentheses. Ready lessons may be taught before, or after, the aligned textbook lesson, at the teacher's discretion.

To address situations in which educators may not be using all textbook units or lessons, or may be using them out of sequence, we have repeated some Ready lessons across the yearlong scope and sequence. We recommend using Ready lessons in their first relevant occurrence, although educators may choose to revisit parts of Ready lessons as needed in subsequent instances.

Our editors have chosen the places of best fit for Ready lessons taking into consideration both the skill focus of a textbook lesson and the opportunities afforded by its reading passages for students to practice application of a given standard. As a result of this approach, in some cases, the recommended Ready lesson may not directly map to the publisher's correlations.

## Grade 5: Recommended Sequencing for Ready® Mathematics with Math Expressions © 2013

Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
1: (Addition and Subtraction with Fractions)	Equivalent Fractions	1-1	Introduce the MathBoard	5.NF.2	Lesson 10: Add and Subtract Fractions (5.NF.A.1, 5.NF.A.2) Lesson 11: Add and Subtract Fractions in Word Problems (5.NF.A.2, 5.NF.A.1)
		1-2	Explain Equivalent Fractions	5.NF.1	
		1-3	Equivalent Fractions and Multipliers	5.NF.1	
		1-4	Strategies for Comparing Fractions	5.NF.1	
		1-5	Fractions Greater Than One	5.NF.1	
	Addition and Subtraction with Fractions	1-6	Add and Subtract Like Mixed Numbers	5.NF.2	Lesson 10: Add and Subtract Fractions (5.NF.A.1, 5.NF.A.2) Lesson 11: Add and Subtract Fractions in Word Problems (5.NF.A.2, 5.NF.A.1)
		1-7	Add Unlike Fractions	5.NF.1 5.NF.2	
		1-8	Subtract Unlike Fractions	5.NF.1 5.NF.2	
		1-9	Solve with Unlike Mixed Numbers	5.NF.1 5.NF.2	
		1-10	Practice with Unlike Mixed Numbers	5.NF.1 5.NF.2 5.MD.2	

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Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
2: (Addition and Subtraction with Decimals)		1-11	Reasonable Answers	5.NF.1 5.NF.2	
		1-12	Real World Problems	5.NF.1 5.NF.2	
		1-13	Focus on Mathematical Practices	5.NF.1 5.NF.2	
	Read and Write Decimals	2-1	Decimals as Equal Divisions	5.NBT.3 5.NBT.3a	Lesson 3: Read and Write Decimals (5.NBT.A.3a) Lesson 4: Compare and Round Decimals (5.NBT.A.3b, 5.NBT.A.4)
		2-2	Thousands to Thousandths	5.NBT.1 5.NBT.3 5.NBT.3a 5.NBT.3b	
		2-3	Equate and Compare Thousandths	5.NBT.1 5.NBT.3 5.NBT.3a 5.NBT.3b	
	Addition and Subtraction	2-4	Adding and Subtracting Decimals	5.NBT.7 5.MD.1	Lesson 7: Add and Subtract Decimals (5.NBT.B.7)
		2-5	Add Whole Numbers and Decimals	5.NBT.7	
		2-6	Subtract Whole and Decimal Numbers	5.NBT.7	

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Topic	Topic Name	Lesson	Lesson Title	TEKS	
	Round and Estimate with Decimals	2-7	Properties and Strategies	5.NBT.7	Lesson 4: Compare and Round Decimals (5.NBT.A.3b, 5.NBT.A.4)
		2-8	Round and Estimate with Decimals	5.NBT.7	
		2-9	Graph with Decimal Numbers	5.NBT.3b 5.NBT.4	
		2-10	Focus on Mathematical Practices	5.NBT.7	
3: (Multiplication and Division with Fractions)	Multiplication with Fractions	3-1	Basic Multiplication Concepts	5.NF.4 5.NF.4a 5.NF.5 5.NF.5b 5.NF.6	Lesson 13: Understand Products of Fractions (5.NF.B.4a, 5.NF.B.4b) Lesson 14: Multiply Fractions Using an Area Model (5.NF.B.4b, 5.NF.B.4a) Lesson 16: Multiply Fractions in Word Problems (5.NF.B.6)
		3-2	Multiplication with Non-Unit Fractions	5.NF.4 5.NF.4a 5.NF.6	
		3-3	Multiplication with Fractional Solutions	5.NF.4 5.NF.4a 5.NF.6	
		3-4	Multiply a Fraction by a Fraction	5.NF.4 5.NF.4a 5.NF.4b 5.NF.6	

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Topic	Topic Name	Lesson	Lesson Title	TEKS	
		3-5	Multiplication Strategies	5.NF.4 5.NF.4a 5.NF.6	
		3-6	Multiply Mixed Numbers	5.NF.4 5.NF.4b 5.NF.5 5.NF.5a 5.NF.5b 5.NF.6	
	Multiplication Links	3-7	Relate Fraction Operations	5.NF.1 5.NF.2 5.NF.4 5.NF.4a 5.NF.5 5.NF.5a 5.NF.5b 5.NF.6	Lesson 16: Multiply Fractions in Word Problems (5.NF.B.6)
		3-8	Solve Real-World Problems	5.NF.1 5.NF.2 5.NF.4 5.NF.5 5.NF.5a 5.NF.6	

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Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
		3-9	Make Generalizations	5.NF.4 5.NF.5 5.NF.5a 5.NF.5b 5.NF.6	
	Division with Fractions	3-10	When Dividing is Also Multiplying	5.NF.3 5.NF.4 5.NF.4a 5.NF.7 5.NF.7a 5.NF.7b 5.NF.7c	Lesson 12: Fractions as Division (5.NF.B.3) Lesson 17: Understand Division with Unit Fractions (5.NF.B.7a, 5.NF.B.7b, 5.NF.B.7c) Lesson 18: Divide Unit Fractions in Word Problems (5.NF.B.7c, 5.NF.B.7a, 5.NF.B.7b)
		3-11	Solve Division Problems	5.NF.3 5.NF.7 5.NF.7a 5.NF.7b 6.NF.7c	

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Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
		3-12	Distinguish Multiplication from Division	5.NF.4 5.NF.5 5.NF.5a 5.NF.5b 5.NF.6 5.NF.7 5.NF.7a 5.NF.7b 5.NF.7c	
		3-13	Review Operations with Fractions	5.NF.1 5.NF.2 5.NF.3 5.NF.4 5.NF.5 5.NF.5a 5.NF.6 5.NF.7 5.NF.7a 5.NF.7b 5.NF.7c 5.MD.2	

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Topic	Topic Name	Lesson	Lesson Title	TEKS	
		3-14	Focus on Mathematical Practices	5.NF.3 5.NF.5a 5.NF.6 5.NF.7c	
4: (Multiplication with Whole Numbers and Decimals)	Multiplication with Whole Numbers and Decimals	4-1	Shift Patterns in Multiplication	5.NBT.1 5.NBT.2 5.NBT.7	Lesson 5: Multiply Whole Numbers (5.NBT.B.5)
		4-2	Patterns with Fives and Zeros	5.NBT.2	
		4-3	Sharing Methods for Multiplication	5.NBT.1 5.NBT.5	
		4-4	Multiply Two-Digit Numbers	5.NBT.5	
		4-5	Practice Multiplication	5.NBT.5	
	Multiplication with Decimal Numbers	4-6	Multiply Decimals by Whole Numbers	5.NBT.2 5.NBT.7	Lesson 8: Multiply Decimals (5.NBT.B.7)
		4-7	Multiply by Decimals	5.NBT.1 5.NBT.2 5.NBT.7	
		4-8	Multiply with Decimals Greater Than 1	5.NBT.5 5.NBT.7	



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Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
		4-9	Compare Shift Patterns	5.NBT.1 5.NBT.2 5.NBT.7	
		4-10	Estimate Products	5.NBT.4 5.NBT.7	
		4-11	Multiplication Practice	5.NBT.5 5.NBT.7	
		4-12	Focus on Mathematical Practices	5.NF.5 5.NF.5a 5.NF.5b 5.NBT.3 5.NBT.3b 5.NBT.5 5.NBT.7	
5: (Division with Whole Numbers and Decimals)	Division with Whole Numbers	5-1	Divide Whole Numbers by One Digit	5.NBT.6	Lesson 6: Divide Whole Numbers (5.NBT.B.6)
		5-2	Explore Dividing by Two-Digit Numbers	5.NBT.6	
		5-3	Too Large, Too Small, or Just Right?	5.NBT.6	
		5-4	Interpret Remainders	5.NBT.6	
		5-5	Division Practice	5.NBT.6	

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Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
	Division with Decimal Numbers	5-6	Divide Decimal Numbers by Whole Numbers	5.NBT.2 5.NBT.7	Lesson 9: Divide Decimals (5.NBT.B.7)
		5-7	Divide Whole Numbers by Decimal Numbers	5.NBT.2 5.NBT.7	
		5-8	Divide with Two Decimal Numbers	5.NBT.2 5.NBT.7	
		5-9	Division Practice	5.NBT.6 5.NBT.7	
		5-10	Distinguish Between Multiplication and Division	5.NBT.3b	
		5-11	Focus on Mathematical Practices	5.NBT.7	
6: (Operations and Word Problems)	Equations and Problem Solving	6-1	Situation and Solution Equations for Addition and Subtraction	5.NBT.7 5.NF.2	Lesson 7: Add and Subtract Decimals (5.NBT.B.7) Lesson 8: Multiply Decimals (5.NBT.B.7) Lesson 9: Divide Decimals (5.NBT.B.7) Lesson 11: Add and Subtract Fractions in Word Problems (5.NF.A.2, 5.NF.A.1) Lesson 16: Multiply Fractions in Word Problems (5.NF.B.6) Lesson 18: Divide Unit Fractions in Word Problems (5.NF.B.7c, 5.NF.B.7a, 5.NF.B.7b)
		6-2	Situation and Solution Equations for Multiplication and Division	5.NBT.5 5.NBT.6 5.NBT.7 5.NF.4 5.NF.4b 5.NF.6 5.NF.7 5.NF.7c	

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Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
		6-3	Write Word Problems	5.NF.4a 5.NF.7a 5.NF.7b	
		6-4	Determine Reasonable Answers	5.NBT.4 5.NBT.6 5.NBT.7 5.NF.1 5.NF.2	
	Comparison Word Problems	6-5	Language of Comparison Problems	5.NBT.5	Lesson 15: Understand Multiplication as Scaling (5.NF.B.5a, 5.NF.B.5b)
		6-6	Multiplicative Comparison Problems	5.NBT.5 5.NBT.6 5.NBT.7 5.NF.5 5.NF.5a 5.NF.5b 5.NF.6 5.NF.7c	

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Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
	Problems with More Than One Step	6-7	Types of Comparison Problems	5.NBT.5 5.NBT.6 5.NBT.7 5.NF.2	Lesson 11: Add and Subtract Fractions in Word Problems (5.NF.A.2, 5.NF.A.1) Lesson 16: Multiply Fractions in Word Problems (5.NF.B.6) Lesson 18: Divide Unit Fractions in Word Problems (5.NF.B.7c, 5.NF.B.7a, 5.NF.B.7b)
		6-8	Equations and Parentheses	5.OA.1 5.NBT.5 5.NBT.7 5.NF.2 5.NF.6 5.NF.7c	
		6-9	Multistep Word Problems	5.NBT.5 5.NBT.6 5.NBT.7 5.NF.2 5.NF.6	
		6-10	Practice Problem Solving	5.NBT.6 5.NF.2 5.NF.6 5.NF.7c	
		6-11	Focus on Mathematical Practices	5.NBT.7 5.NF.3	

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Topic	Topic Name	Lesson	Lesson Title	TEKS	
7: (Algebra, Patterns, and Coordinate Graphs)	Algebraic Reasoning and Expressions	7-1	Read and Write Expressions	5.OA.1	Lesson 19: Evaluate and Write Expressions (5.OA.A.1, 5.OA.A.2)
		7-2	Simplify Expressions	5.OA.1	
		7-3	Evaluate Expressions	5.OA.1 5.OA.2	
	Patterns and Graphs	7-4	Patterns and Relationships	5.OA.1 5.OA.2 5.OA.3	Lesson 20: Analyze Patterns and Relationships (5.OA.B.3) Lesson 28: Understand the Coordinate Plane (5.G.A.1) Lesson 29: Graph Points on the Coordinate Plane (5.G.A.2)
		7-5	The Coordinate Plane	5.G.1	
		7-6	Graph Ordered Pairs	5.OA.3 5.G.1 5.G.2	
		7-7	Focus on Mathematical Practices	5.OA.1 5.G.1 5.G.2	
8: (Measurement and Geometry)	Measurements and Data	8-1	Convert Metric Units of Length	5.MD.1	Lesson 21: Convert Measurement Units (5.MD.A.1, 5.NF.B.7)
		8-2	Metric Units of Liquid Volume	5.MD.1	Lesson 22: Solve Word Problems Involving Conversions (5.MD.A.1, 5.NF.B.7)
		8-3	Metric Units of Mass	5.MD.1	Lesson 23: Make Line Plots and Interpret Data (5.MD.B.2)

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Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
		8-4	Customary Units of Length	5.MD.1	Lesson 24: Understand Volume (5.MD.C.3a, 5.MD.C.3b, 5.NBT.A.2) Lesson 26: Find Volume Using Formulas (5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c)
		8-5	Customary Units of Liquid Measure	5.MD.1	
		8-6	Customary Units of Weight	5.MD.1	
		8-7	Read and Make Line Plots	5.MD.2	
	Area and Volume	8-8	Perimeter and Area of Rectangles	5.NF.4b	Lesson 24: Understand Volume (5.MD.C.3a, 5.MD.C.3b, 5.NBT.A.2) Lesson 25: Find Volume Using Unit Cubes (5.MD.C.4, 5.MD.C.5a) Lesson 26: Find Volume Using Formulas (5.MD.C.5a, 5.MD.C.5b, 5.MD.C.5c) Lesson 27: Find Volume of Composite Figures (5.MD.C.5c, 5.MD.C.5a, 5.MD.C.5b)
		8-9	Cubic Units and Volume	5.MD.3a 5.MD.3b 5.MD.4	
		8-10	Visualize Volume	5.MD.3 5.MD.3a 5.MD.3b	
		8-11	Introduce Volume Formulas	5.MD.5a 5.MD.5b	
		8-12	Relate Length, Area, and Volume	5.MD.5b	
		8-13	Volume of Composite Solid Figures	5.MD.5 5.MD.5b 5.MD.5c	

## Grade 5: Recommended Sequencing for Ready® Mathematics with Math Expressions © 2013

Math Expressions Grade 5					Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
	Classify Geometric Figures	8-14	Attributes of Quadrilaterals	5.G.3 5.G.4	Lesson 30: Classify Two-Dimensional Figures (5.G.B.4) Lesson 31: Understand Properties of Two-Dimensional Figures (5.G.B.3)
		8-15	Attributes of Triangles	5.G.3 5.G.4	
		8-16	Attributes of Two-Dimensional Shapes	5.G.3 5.G.4	
		8-17	Focus on Mathematical Practices	5.MD.3 5.MD.5 5.MD.5b	