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.

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Math Expressions Grade 4					Ready Mathematics
Topic	**Topic Name**	**Lesson**	**Lesson Title**	**TEKS**	
1: (Place Value and Multidigit Addition and Subtraction)	Place Value to One Million	1-1	Place Value to Thousands	4.NBT.1	Lesson 1: Understand Place Value (4.NBT.A.1, 4.NBT.A.2) Lesson 2: Compare Whole Numbers (4.NBT.A.2, 4.NBT.A.1) Lesson 4: Round Whole Numbers (4.NBT.A.3)
		1-2	Place Value Patterns	4.NBT.1	
		1-3	Round Numbers	4.NBT.2 4.NBT.3	
		1-4	Numbers to One Million	4.NBT.1 4.NBT.2	
		1-5	Compare and Round Greater Numbers	4.NBT.2 4.NBT.3	
	Addition with Greater Numbers	1-6	Make New Groups for Addition	4.NBT.4 4.MD.2	Lesson 3: Add and Subtract Whole Numbers (4.NBT.B.4, 4.NBT.A.2)
		1-7	Add Greater Numbers	4.NBT.4	
		1-8	Estimation and Mental Math	4.OA.3 4.NBT.3 4.NBT.4	
	Subtraction with Greater Numbers	1-9	Subtract from Thousands	4.NBT.4	Lesson 3: Add and Subtract Whole Numbers (4.NBT.B.4, 4.NBT.A.2)
		1-10	Subtraction Undoes Addition	4.NBT.4	
		1-11	Subtract Greater Numbers	4.NBT.4	

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	Math Expressions Grade 4				Ready Mathematics
Topic	**Topic Name**	**Lesson**	**Lesson Title**	**TEKS**	
		1-12	Practice Addition and Subtraction	4.NBT.4	
		1-13	Problem Solving with Greater Numbers	4.NBT.4 4.MD.2	
		1-14	Focus on Mathematical Practices	4.NBT.3 4.NBT.4	
2: (Multiplication with Whole Numbers)	Multiplication with Tens and Hundreds	2-1	Arrays and Area Models	4.NBT.5	Lesson 11: Multiply Whole Numbers (4.NBT.B.5, 4.OA.A.2, 4.OA.A.3, 4.NBT.A.1)
		2-2	Connect Place Value and Multiplication	4.NBT.1 4.NBT.5	
		2-3	Mental Math and Multiplication	4.NBT.1 4.NBT.5	
	Multiply by One-Digit Numbers	2-4	Model One-Digit by Two-Digit Multiplication	4.NBT.2 4.NBT.5 4.MD.2	Lesson 6: Multiplication and Division in Word Problems (4.OA.A.2) Lesson 9: Model Multi-Step Problems (4.OA.A.3, 4.NBT.A.3, 4.NBT.A.4, 4.NBT.B.5, 4.NBT.B.6) Lesson 10: Solve Multi-Step Problems (4.OA.A.3, 4.NBT.A.3, 4.NBT.B.4, 4.NBT.B.5, 4.NBT.B.6)
		2-5	Estimate Products	4.NBT.3 4.NBT.5	
		2-6	Use Place Value to Multiply	4.NBT.5	
		2-7	Algebraic Notation Method	4.NBT.5	

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Topic	**Topic Name**	**Lesson**	**Lesson Title**	**TEKS**	
		2-8	Compare Methods of One-Digit by Two-Digit Multiplication	4.NBT.5	
		2-9	Discuss Different Methods	4.NBT.5	
		2-10	One-Digit by Three-Digit Multiplication	4.NBT.2 4.NBT.5 4.MD.2	
		2-11	Multistep Word Problems	4.OA.3 4.NBT.5	
	Multiplication with Two-Digit Numbers	2-12	Two-Digit by Two-Digit Multiplication	4.NBT.2 4.NBT.5	Lesson 11: Multiply Whole Numbers (4.NBT.B.5, 4.OA.A.2, 4.OA.A.3, 4.NBT.A.1)
		2-13	Different Methods for Two-Digit Multiplication	4.NBT.5	
		2-14	Check Products of Two-Digit Numbers	4.NBT.5	
		2-15	Practice Multiplication	4.OA.3 4.NBT.5	
	Multiplication with Thousands	2-16	Multiply One-Digit and Four-Digit Numbers	4.NBT.2 4.NBT.5	Lesson 11: Multiply Whole Numbers (4.NBT.B.5, 4.OA.A.2, 4.OA.A.3, 4.NBT.A.1)
		2-17	Use the Shortcut Method	4.NBT.3 4.NBT.5	

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Math Expressions Grade 4					**Ready Mathematics**
Topic	**Topic Name**	**Lesson**	**Lesson Title**	**TEKS**	
		2-18	Practice Multiplying	4.OA.3 4.NBT.5 4.MD.2	
		2-19	Focus on Mathematical Practices	4.OA.3 4.NBT.2 4.NBT.5	
3: (Division with Whole Numbers)	Dividing Whole Numbers	3-1	Divide with Remainders	4.NBT.6	Lesson 12: Divide Whole Numbers (4.NBT.B.6, 4.OA.A.2, 4.OA.A.3, 4.NBT.A.1)
		3-2	Relate 3-Digit Multiplication to Division	4.NBT.6	
		3-3	Discuss 2-Digit and 4-Digit Quotients	4.NBT.6	
		3-4	Digit-by-Digit Method	4.NBT.6	
		3-5	Relate Three Methods	4.NBT.6	
		3-6	Divide by Any Method	4.NBT.6	
	Division Issues and Word Problems	3-7	Just-Under Quotient Digits	4.NBT.6	Lesson 12: Divide Whole Numbers (4.NBT.B.6, 4.OA.A.2, 4.OA.A.3, 4.NBT.A.1)
		3-8	Estimate to Check Quotients	4.OA.3 4.NBT.3	
		3-9	Make Sense of Remainders	4.NBT.6	
		3-10	Mixed Problem Solving	4.OA.3 4.NBT.6	

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Topic	Topic Name	Lesson	Lesson Title	TEKS	
		3-11	Focus on Mathematical Practices	4.NBT.6	
4: (Equations and Word Problems)	Reasoning and Solving Problems	4-1	Properties and Algebraic Notation	4.NBT.4 4.NBT.5 4.NBT.6	Lesson 6: Multiplication and Division in Word Problems (4.OA.A.2)
		4-2	Situation and Solution Equations for Addition and Subtraction	4.NBT.4	
		4-3	Situation and Solution Equations for Multiplication and Division	4.NBT.4 4.NBT.5 4.NBT.6 4.MD.2	
	Comparison Word Problems	4-4	Multiplication Comparisons	4.OA.1 4.OA.2	Lesson 5: Understand Multiplication (4.OA.A.1, 4.OA.A.3) Lesson 6: Multiplication and Division in Word Problems (4.OA.A.2)
		4-5	Discuss Comparison Problems	4.OA.1 4.OA.2	
		4-6	Graphs and Comparison Problems	4.OA.1 4.OA.2	
	Problems with More Than One Step	4-7	Solve Two-Step Problems	4.OA.3	Lesson 9: Model Multi-Step Problems (4.OA.A.3, 4.NBT.A.3, 4.NBT.A.4, 4.NBT.B.5, 4.NBT.B.6) Lesson 10: Solve Multi-Step Problems (4.OA.A.3, 4.NBT.A.3, 4.NBT.B.4, 4.NBT.B.5, 4.NBT.B.6)
		4-8	Solve Multistep Problems	4.OA.3	

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	Math Expressions Grade 4				Ready Mathematics
Topic	Topic Name	Lesson	Lesson Title	TEKS	
		4-9	Practice with Multistep Problems	4.OA.3	
	Analyzing Patterns	4-10	Factors and Prime Numbers	4.OA.4 4.OA.5	Lesson 7: Multiples and Factors (4.OA.B.4) Lesson 8: Number and Shape Patterns (4.OA.C.5, 4.OA.A.4)
		4-11	Analyze Patterns	4.OA.5	
		4-12	Focus on Mathematical Practices	4.OA.1 4.OA.2 4.OA.3 4.OA.4 4.OA.5 4.NBT.4 4.NBT.5 4.NBT.6 4.MD.2	
5: (Measurement)	Converting Measurements	5-1	Measure Length	4.MD.1 4.MD.2	Lesson 24: Time and Money (4.MD.A.2, 4.OA.A.2, 4.OA.A.3, 4.NBT.B.4, 4.NF.B.4) Lesson 25: Length, Liquid Volume, and Mass (4.MD.A.2, 4.OA.A.2, 4.OA.A.3, 4.NBT.B.4, 4.NF.B.4)
		5-2	Metric Measures of Liquid Volume and Mass	4.MD.1 4.MD.2	
		5-3	Units of Time	4.MD.1 4.MD.2 4.MD.4	
		5-4	Customary Measures of Length	4.MD.1 4.MD.2	

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	Math Expressions Grade 4				Ready Mathematics
Topic	**Topic Name**	**Lesson**	**Lesson Title**	**TEKS**	
		5-5	Customary Measurs of Weight and Liquid Volumes	4.MD.1 4.MD.2	
	Perimeter and Area	5-6	Pereimeter and Area of Rectangles	4.MD.3	Lesson 26: Perimeter and Area (4.MD.A.3, 4.NBT.B.5)
		5-7	Solve Measurement Problems	4.MD.1 4.MD.2 4.MD.3	
		5-8	Focus on Mathematical Practices	4.MD.1 4.MD.2 4.MD.3	
6: (Fraction Concepts and Operations)	Fractions with Like Denominators	6-1	Understand Fractions	4.NF.3 4.NF.3b 4.NF.4a	Lesson 15: Understand Fraction Addition and Subtraction (4.NF.B.3a, 4.NF.B.3b) Lesson 16: Add and Subtract Fractions (4.NF.B.3a, 4.NF.B.3d) Lesson 20: Fractions as Tenths and Hundredths (4.NF.C.5)
		6-2	Fractions that Add to One	4.NF.2 4.NF.3 4.NF.3a 4.NF.3b	
		6-3	Add and Subtract Fractions with Like Denominators	4.NF.3 4.NF.3a 4.NF.3d 4.MD.2	

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	Math Expressions Grade 4				Ready Mathematics
Topic	**Topic Name**	**Lesson**	**Lesson Title**	**TEKS**	
	Mixed Numbers with Like Denominators	6-4	Mixed Numbers and Fractions Greater Than 1	4.NF.2 4.NF.3 4.NF.3a 4.NF.3b 4.NF.3d	Lesson 17: Add and Subtract Mixed Numbers (4.NF.B.3b, 4.NF.B.3c, 4.NF.B.3d)
		6-5	Add and Subtract Mixed Numbers with Like Denominators	4.NF.3 4.NF.3a 4.NF.3b 4.NF.3c	
		6-6	Practice with Fractions and Mixed Numbers	4.NF.3 4.NF.3a 4.NF.3b 4.NF.3c 4.NF.3d 4.MD.2 4.MD.4	
	Multiply Fractions and Whole Numbers	6-7	Multiply a Fraction by a Whole Number	4.NF.4 4.NF.4a 4.NF.4b 4.NF.4c	Lesson 18: Understand Fraction Multiplication (4.NF.B.4a, 4.NF.B.4b) Lesson 19: Multiply Fractions (4.NF.B.4c)
		6-8	Practice Multiplying by a Whole Number	4.NF.4 4.NF.4a 4.NF.4b 4.NF.4c 4.MD.2	

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Topic	Topic Name	Lesson	Lesson Title	TEKS	
		6-9	Mixed Practice	4.NF.3b 4.NF.3c 4.NF.3d 4.NF.4 4.NF.4a 4.NF.4b 4.NF.4c	
		6-10	Focus on Mathematical Practices	4.NF.2 4.NF.3 4.NF.3a 4.NF.3b 4.NF.3c 4.NF.3d 4.NF.4 4.NF.4a 4.NF.4b 4.NF.4c	
7: (Fractions and Decimals	Comparing Fractions	7-1	Compare Fractions	4.NF.2	Lesson 14: Compare Fractions (4.NF.A.2)
		7-2	Fractions on the Number Line	4.NF.2	
		7-3	Fractions of Different-Size Wholes	4.NF.2	
	Equivalent Fractions	7-4	Equivalent Fractions Using Multiplication	4.NF.1	Lesson 13: Understand Equivalent Fractions (4.NF.A.1)

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Topic	**Topic Name**	**Lesson**	**Lesson Title**	**TEKS**	
		7-5	Equivalent Fractions Using Division	4.NF.1	
		7-6	Compare Fractions with Unlike Denominators	4.NF.1 4.NF.2	
		7-7	Fractions and Line Plots	4.MD.4	
	Understanding Decimals	7-8	Relate Fractions and Decimals	4.NF.6	Lesson 21: Relate Decimals and Fractions (4.NF.C.6) Lesson 22: Compare Decimals (4.NF.C.7)
		7-9	Explore Decimal Numbers	4.NF.6 4.MD.2	
		7-10	Compare Decimals to Hundredths	4.NF.6 4.NF.7 4.MD.2	
		7-11	Decimals Greater Than 1	4.NF.6 4.MD.2	
		7-12	Compare Decimals Greater Than 1	4.NF.7 4.MD.2	
		7-13	Focus on Mathematical Practices	4.NF.1 4.NF.2 4.NF.6 4.NF.7 4.MD.4	

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Topic	**Topic Name**	**Lesson**	**Lesson Title**	**TEKS**	
8: (Geometry)	Measuring and Drawing Angles	8-1	Points, Rays, and Angles	4.MD.5 4.G.1	Lesson 28: Understand Angles (4.MD.C.5a, 4.MD.C.5b) Lesson 29: Measure and Draw Angles (4.MD.C.6, 4.MD.C.5, 4.G.A.1, 4.G.A.2)
		8-2	Measuring Angles	4.MD.5 4.MD.5a 4.MD.5b 4.MD.6 4.G.1	Lesson 31: Points, Lines, Rays, and Angles (4.G.A.1, 4.G.A.2, 4.MD.C.5, 4.MD.C.6)
		8-3	Circles and Angles	4.MD.5 4.MD.5a 4.MD.5b 4.MD.6 4.MD.7 4.G.1	
	Triangles and Angle Measurements	8-4	Name Triangles	4.G.1 4.G.2	Lesson 30: Add and Subtract with Angles (4.MD.C.7, 4.OA.A.3, 4.OA.B.4, 4.MD.C.5, 4.MD.C.6, 4.G.A.1, 4.G.A.2) Lesson 32: Classify Two-Dimensional Figures (4.G.A.2, 4.G.A.1, 4.MD.C.5, 4.MD.C.6)
		8-5	Compose and Decompose Angles	4.MD.6 4.MD.7 4.G.1	
		8-6	Real World Problems	4.MD.7	
	Analyzing Quadrilaterals	8-7	Parallel and Perpendicular Lines and Line Segments	4.G.1	Lesson 31: Points, Lines, Rays, and Angles (4.G.A.1, 4.G.A.2, 4.MD.C.5, 4.MD.C.6)
		8-8	Classify Quadrilaterals	4.G.1 4.G.2	Lesson 32: Classify Two-Dimensional Figures (4.G.A.2, 4.G.A.1, 4.MD.C.5, 4.MD.C.6)

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Topic	Topic Name	Lesson	Lesson Title	TEKS	
		8-9	Decompose Quadrilaterals and Triangles	4.G.1 4.G.2	
	Analyzing Polygons	8-10	Classify Polygons	4.G.1 4.G.2	Lesson 32: Classify Two-Dimensional Figures (4.G.A.2, 4.G.A.1, 4.MD.C.5, 4.MD.C.6) Lesson 33: Symmetry (4.G.A.3)
		8-11	Line Symmetry	4.G.3	
		8-12	Focus on Mathematical Practices	4.OA.5 4.G.1 4.G.2 4.G.3	