

▲◀● HMH

Welcome, Educators!

As you plan for this year, we hope that *Math in Focus*[®] and the Singapore Math[®] approach will provide effective strategies for focusing and differentiating instruction. The framework below is designed to help you focus your planning.

Using the Essential Content Framework

To move forward this fall, we recommend beginning with the content from the current grade. Review this framework against your school's and state's specific goals, and in collaboration with administrators and your colleagues across grades, to determine where you want to add new content or prior-year review.

As you reach the priority topics shown below, as well as the topics that address your specific priorities, you may want to reinforce prerequisite knowledge. The Prior Learning column (Grades 1 and up) suggests where you can find support from the grade before. If the third column is empty, it means that students learned the prerequisites earlier this grade, or several grades in the past.

When you reach content that is *not* listed as priority content, you can take several paths to give students a targeted grounding:

- Combine some content from that section into a related priority section.
- Teach a mini-lesson on that topic, with the Learn activities and practice, possibly using learning stations.
- Use these topics to extend concepts within a related section.

Evaluating Readiness

We recommend using the Recall Prior Knowledge and Quick Check to get a sense of students' readiness for each chapter and to identify areas to dig into more deeply as you move through grade-level content. You can also administer chapter Pre-Tests; we recommend emphasizing the diagnostic and formative nature of these to provide the most supportive learning environment.

From Engagement to Mastery

Students should start with engaging, hands-on learning experiences to the greatest possible extent. Using the Concrete-Pictorial-Abstract (CPA) approach, you may want students to use physical math manipulatives throughout the lessons and as a strategic resource to solve non-routine problems. The goal is for students to grow as problem solvers and as mathematicians.

We look forward to supporting you on this worthwhile journey.

The Math in Focus® Team

Houghton Mifflin Harcourt | hmhco.com

Math in Focus © 2013 Grade 3

Priority standards were identified through Achieve the Core.* Standards in *italics* were further selected by International Center for Leadership in Education.**

Grade 3 Section	Priority Standards	Prior Learning
Chapter 1 Numbers to 10,	000	
1.1 Counting	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
1.2 Place Value	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
1.3 Comparing and	Not identified as a priority standard. See teaching	
Ordering Numbers	suggestions noted in the letter.	
Chapter 2 Mental Math a	nd Estimation	
2.1 Mental Addition	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
2.2 Mental Subtraction	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
2.3 More Mental	Not identified as a priority standard. See teaching	
Addition	suggestions noted in the letter.	
2.4 Rounding Numbers	3.OA.D Solve problems involving the four	
to Estimate	operations, and identify and explain patterns in	
	arithmetic.**	
2.5 Using Front-End	Not identified as a priority standard. See teaching	
Estimation	suggestions noted in the letter.	
Chapter 3 Addition up to 2	10,000	
3.1 Addition Without	Not identified as a priority standard. See teaching	
Regrouping	suggestions noted in the letter.	
3.2 Addition With	Not identified as a priority standard. See teaching	
Regrouping in Hundreds	suggestions noted in the letter.	
3.3 Addition With	Not identified as a priority standard. See teaching	
Regrouping in Ones,	suggestions noted in the letter.	
Tens, and Hundreds		
Chapter 4 Subtraction up		
4.1 Subtraction Without	Not identified as a priority standard. See teaching	
Regrouping	suggestions noted in the letter.	
4.2 Subtraction With	Not identified as a priority standard. See teaching	
Regrouping in Hundreds	suggestions noted in the letter.	
and Thousands		
4.3 Subtraction With	Not identified as a priority standard. See teaching	
Regrouping in Ones,	suggestions noted in the letter.	
Tens, Hundreds, and		
Thousands		
4.4 Subtraction Across	Not identified as a priority standard. See teaching	
Zeros	suggestions noted in the letter.	

Grade 3 Section	Priority Standards	Prior Learning
Chapter 5 Using Bar Mod	els: Addition and Subtraction	
5.1 Real-World Problems: Addition and Subtraction	3.OA.D Solve problems involving the four operations, and identify and explain patterns in arithmetic.	Grade 2 Section 4.1 Grade 2 Section 4.2 Grade 2 Section 4.3 Grade 2 Section 4.4
Chapter 6 Multiplication	Tables of 6, 7, 8, and 9	
6.1 Multiplication Properties	 3.OA.A Represent and solve problems involving multiplication and division. 3.OA.B Understand properties of multiplication and the relationship between multiplication and division. 3.OA.C Multiply and divide within 100. 	Grade 2 Section 5.1
6.2 Multiply by 6	 3.OA.A Represent and solve problems involving multiplication and division. 3.OA.B Understand properties of multiplication and the relationship between multiplication and division. 3.OA.C Multiply and divide within 100. 3.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic.+ 	Grade 2 Section 6.1 Grade 2 Section 6.2 Grade 2 Section 6.3 Grade 2 Section 6.4 Grade 2 Section 6.5 Grade 2 Section 15.1 Grade 2 Section 15.2 Grade 2 Section 15.3 Grade 2 Section 15.4
6.3 Multiply by 7	 3.OA.A Represent and solve problems involving multiplication and division. 3.OA.B Understand properties of multiplication and the relationship between multiplication and division. 3.OA.C Multiply and divide within 100. 3.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic.+ 	Grade 2 Section 6.1 Grade 2 Section 6.2 Grade 2 Section 6.3 Grade 2 Section 6.4 Grade 2 Section 6.5 Grade 2 Section 15.1 Grade 2 Section 15.2 Grade 2 Section 15.3 Grade 2 Section 15.4
6.4 Multiply by 8	3.OA.A Represent and solve problems involving multiplication and division. 3.OA.B Understand properties of multiplication and the relationship between multiplication and division. 3.OA.C Multiply and divide within 100. 3.NBT.A Use place value understanding and properties of operations to perform multi-digit arithmetic.+	Grade 2 Section 6.1 Grade 2 Section 6.2 Grade 2 Section 6.3 Grade 2 Section 6.4 Grade 2 Section 6.5 Grade 2 Section 15.1 Grade 2 Section 15.2 Grade 2 Section 15.3 Grade 2 Section 15.4
6.5 Multiply by 9	 3.OA.A Represent and solve problems involving multiplication and division. 3.OA.B Understand properties of multiplication and the relationship between multiplication and division. 	Grade 2 Section 6.1 Grade 2 Section 6.2 Grade 2 Section 6.3 Grade 2 Section 6.4 Grade 2 Section 6.5

Grade 3 Section	Priority Standards	Prior Learning
	3.OA.C Multiply and divide within 100.	Grade 2 Section 15.1
	3.NBT.A Use place value understanding and	Grade 2 Section 15.2
	properties of operations to perform multi-digit	Grade 2 Section 15.3
	arithmetic.+	Grade 2 Section 15.4
6.6 Division: Finding the	3.OA.A Represent and solve problems involving	Grade 2 Section 5.2
Number of Items in Each	multiplication and division.	Grade 2 Section 5.3
Group	3.OA.B Understand properties of multiplication and	
1	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
6.7 Division: Making	3.OA.A Represent and solve problems involving	Grade 2 Section 5.2
Equal Groups	multiplication and division.	Grade 2 Section 5.3
	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	
	3.0A.C Multiply and divide within 100.	
Chapter 7 Multiplication		
7.1 Mental	3.OA.A Represent and solve problems involving	Grade 2 Section 6.1
Multiplication	multiplication and division.	Grade 2 Section 6.2
manipheacton	3.OA.B Understand properties of multiplication and	Grade 2 Section 6.2
	the relationship between multiplication and	Grade 2 Section 6.4
	division.	Grade 2 Section 6.5
	3.0A.C Multiply and divide within 100.	Grude 2 Section 0.5
	3.NBT.A Use place value understanding and	
	properties of operations to perform multi-digit	
	arithmetic.+	
7.2 Multiplying Without	3.OA.A Represent and solve problems involving	
Regrouping	multiplication and division.	
negrouping	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and division.	
7 2 Multiplying Open	3.OA.C Multiply and divide within 100.	
7.3 Multiplying Ones,	3.OA.A Represent and solve problems involving	
Tens, and Hundreds with	multiplication and division.	
Regrouping	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
	3.NBT.A Use place value understanding and	
	properties of operations to perform multi-digit	
	arithmetic.+	
Chapter 8 Division		
8.1 Mental Division	3.OA.A Represent and solve problems involving	Grade 2 Section 15.5
	multiplication and division.	
	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	

Grade 3 Section	Priority Standards	Prior Learning
	3.OA.C Multiply and divide within 100.	
8.2 Quotient and	3.OA.A Represent and solve problems involving	
Remainder	multiplication and division.	
	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
8.3 Odd and Even	3.OA.A Represent and solve problems involving	Grade 2 Section 5.2.a
Numbers	multiplication and division.	
	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
8.4 Division Without	3.OA.A Represent and solve problems involving	
Remainder and	multiplication and division.	
Regrouping	3.OA.B Understand properties of multiplication and	
negrouping	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
8.5 Division with	3.OA.A Represent and solve problems involving	
Regrouping in Tens and	multiplication and division.	
Ones	3.OA.B Understand properties of multiplication and	
Olles	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
Chapter 9 Using Bar Mod	els: Multiplication and Division	
9.1 Real-World	3.OA.A Represent and solve problems involving	Grade 2 Section 16.1
Problems: Multiplication	multiplication and division.	Grude 2 Section 10.1
Troblems. Wuttpileation	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
9.2 Real-World	3.OA.A Represent and solve problems involving	
Problems: Two-Step	multiplication and division.	
Problems with	3.OA.B Understand properties of multiplication and	
Multiplication	the relationship between multiplication and	
wattpication	division.	
	3.OA.C Multiply and divide within 100.	
	3.OA.D Solve problems involving the four	
	operations, and identify and explain patterns in	
	arithmetic.	
9.3 Real-World	3.OA.A Represent and solve problems involving	Grade 2 Section 16.2
Problems: Division		Gruue 2 Section 10.2
FIUDIEIIIS. DIVISIUII	multiplication and division.	
	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division. 3.OA.C Multiply and divide within 100.	

Grade 3 Section	Priority Standards	Prior Learning
9.4 Real-World	3.OA.A Represent and solve problems involving	_
Problems: Two-Step	multiplication and division.	
Problems with Division	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
	3.OA.D Solve problems involving the four	
	operations, and identify and explain patterns in	
	arithmetic.	
9.4.a Real-World	3.OA.D Solve problems involving the four	
Problems: Two-Step	operations, and identify and explain patterns in	
Problems	arithmetic.	
Chapter 10 Money		
10.1 Addition	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
10.2 Subtraction	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
10.3 Real-World	Not identified as a priority standard. See teaching	
Problems: Money	suggestions noted in the letter.	
Chapter 11 Metric Length	, Mass, and Volume	
11.1 Meters and	Not identified as a priority standard. See teaching	
Centimeters	suggestions noted in the letter.	
11.2 Kilometers and	Not identified as a priority standard. See teaching	
Meters	suggestions noted in the letter.	
11.3 Kilograms and	Not identified as a priority standard. See teaching	
Grams	suggestions noted in the letter.	
11.4 Liters and Milliliters	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
Chapter 12 Real-World Pr	oblems: Measurement	
12.1 Real-World	3.OA.A Represent and solve problems involving	Grade 2 Section 13.5
Problems: One-Step	multiplication and division.	Grade 2 Section 16.3
Problems	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
12.2 Real-World	3.OA.A Represent and solve problems involving	
Problems: Two-Step	multiplication and division.	
Problems	3.OA.B Understand properties of multiplication and	
	the relationship between multiplication and	
	division.	
	3.OA.C Multiply and divide within 100.	
Chapter 13 Bar Graphs an		
13.1 Making Bar Graphs	3.MD.B Represent and interpret data.+	
with Scales		
13.2 Reading and	3.MD.B Represent and interpret data.+	
Interpreting Bar Graphs		

Grade 3 Section	Priority Standards	Prior Learning
13.3 Line Plots	3.MD.B Represent and interpret data.+	Grade 2 Section 17.2.a
Chapter 14 Fractions		
14.1 Understanding	3.NF.A Develop understanding of fractions as	Grade 2 Section 12.1
Fractions	numbers.	
	3.G.A Reason with shapes and their attributes.+	
14.2 Understanding	3.NF.A Develop understanding of fractions as	Grade 2 Section 12.1
Equivalent Fractions	numbers.	
	3.G.A Reason with shapes and their attributes.+	
14.3 More Equivalent	3.NF.A Develop understanding of fractions as	Grade 2 Section 12.1
Fractions	numbers.	
	3.G.A Reason with shapes and their attributes.+	
14.4 Comparing	3.NF.A Develop understanding of fractions as	Grade 2 Section 12.2
Fractions	numbers.	
	3.G.A Reason with shapes and their attributes.+	
14.5 Adding and	3.G.A Reason with shapes and their attributes.+	Grade 2 Section 12.3
Subtracting Like		
Fractions		
14.6 Fraction of a Set	3.G.A Reason with shapes and their attributes.+	
	3.NF.A Develop understanding of fractions as	
	numbers.*	
14.6.a Fractions	3.NF.A Develop understanding of fractions as	
	numbers.	
Chapter 15 Customary Ler	ngth, Weight, and Capacity	
15.1 Measuring Length	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
15.1.a Measuring Length	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
15.2 Measuring Weight	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
15.3 Measuring Capacity	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
Chapter 16 Time and Mea	surement	
16.1 Telling Time	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
16.2 Converting Hours	Not identified as a priority standard. See teaching	
and Minutes	suggestions noted in the letter.	
16.3 Adding Hours and	Not identified as a priority standard. See teaching	
Minutes	suggestions noted in the letter.	
16.4 Subtracting Hours	Not identified as a priority standard. See teaching	
and Minutes	suggestions noted in the letter.	
16.5 Elapsed Time	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
16.6 Measuring	Not identified as a priority standard. See teaching	
Temperature	suggestions noted in the letter.	

Grade 3 Section	Priority Standards	Prior Learning
16.7 Real-World	Not identified as a priority standard. See teaching	
Problems: Time and	suggestions noted in the letter.	
Temperature		
Chapter 17 Angles and Lin	les	
17.1 Understanding and	Not identified as a priority standard. See teaching	
Identifying Angles	suggestions noted in the letter.	
17.2 Right Angles	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
17.3 Perpendicular Lines	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
17.4 Parallel Lines	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
Chapter 18 Two-Dimensio	nal Shapes	
18.1 Classifying	Not identified as a priority standard. See teaching	
Polygons	suggestions noted in the letter.	
18.2 Congruent Figures	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
18.3 Symmetry	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
Chapter 19 Area and Perir	neter	
19.1 Area	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
19.2 Square Units (cm ₂	Not identified as a priority standard. See teaching	
and in.2)	suggestions noted in the letter.	
19.3 Square Units (m ₂	Not identified as a priority standard. See teaching	
and ft ₂)	suggestions noted in the letter.	
19.4 Perimeter and Area	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
19.4.a Real-World	Not identified as a priority standard. See teaching	
Problems Area	suggestions noted in the letter.	
19.5 More Perimeter	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	

* Priority standards clusters were identified as Priority Instructional Content through Achieve the Core by Student Achievement Partners, Pre-Publication Draft, May 2020. Full documents are available at AchieveTheCore.org.

**International Center for Leadership in Education (ICLE) selected further priority standards, in most cases within the clusters called out by Achieve the Core.

+ This standard selected by ICLE is not within an Achieve the Core cluster.

Houghton Mifflin Harcourt | hmhco.com

Math in Focus © 2013 Grade 4

Priority standards were identified through Achieve the Core.* Standards in *italics* were further selected by International Center for Leadership in Education.**

Grade 4 Section	er selected by International Center for Leadership in Education.** Priority Standards	Prior Learning
Chapter 1 Place Value o		
1.1 Numbers to	4.NBT.A Generalize place value understanding for	Grade 3 Section 1.2
100,000	multi-digit whole numbers.**	
1.2 Comparing	4.NBT.A Generalize place value understanding for	Grade 3 Section 1.3
Numbers to 100,000	multi-digit whole numbers.	
1.2.a Addition of	4.NBT.B Use place value understanding and	Grade 3 Section 3.3
Multi-Digit Numbers	properties of operations to perform multi-digit	
_	arithmetic.+	
1.2.b Subtraction of	4.NBT.B Use place value understanding and	Grade 3 Section 4.3
Multi-Digit Numbers	properties of operations to perform multi-digit	
-	arithmetic.+	
Chapter 2 Estimation ar	nd Number Theory	
2.1 Estimation	4.OA.A Use the four operations with whole numbers	Grade 3 Section 2.4
	to solve problems.	
2.2 Factors	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
2.3 Multiples	4.NBT.A Generalize place value understanding for	
	multi-digit whole numbers.	
Chapter 3 Whole Numb	er Multiplication and Division	
3.0 Multiply Using	4.NBT.B Use place value understanding and	Grade 3 Section 6.1
Arrays	properties of operations to perform multi-digit	
	arithmetic.+	
3.1 Multiplying by a 1-	4.NBT.A Generalize place value understanding for	Grade 3 Section 6.2
Digit Number	multi-digit whole numbers.	Grade 3 Section 6.3
	4.NBT.B Use place value understanding and	Grade 3 Section 6.4
	properties of operations to perform multi-digit	Grade 3 Section 6.5
	arithmetic.+	Grade 3 Section 7.1
	4.OA.A Use the four operations with whole numbers	Grade 3 Section 7.2
	to solve problems.*	Grade 3 Section 7.3
3.1.a Multiply Using	4.NBT.B Use place value understanding and	Grade 3 Section 6.1
Array Models	properties of operations to perform multi-digit	
	arithmetic.+	
3.2 Multiplying by a 2-	4.NBT.A Generalize place value understanding for	Grade 3 Section 6.2
Digit Number	multi-digit whole numbers.	Grade 3 Section 6.3
	4.NBT.B Use place value understanding and	Grade 3 Section 6.4
	properties of operations to perform multi-digit	Grade 3 Section 6.5
	arithmetic.+	Grade 3 Section 7.1
	4.OA.A Use the four operations with whole numbers	Grade 3 Section 7.2
	to solve problems.	Grade 3 Section 7.3

Grade 4 Section	Priority Standards	Prior Learning
3.3 Modeling Division	4.NBT.A Generalize place value understanding for	Grade 3 Section 6.6
with Regrouping	multi-digit whole numbers.	Grade 3 Section 6.7
5 7 - 5	4.NBT.B Use place value understanding and	
	properties of operations to perform multi-digit	
	arithmetic.+	
3.4 Dividing by a 1-	4.NBT.B Use place value understanding and	Grade 3 Section 8.1
Digit Number	properties of operations to perform multi-digit	Grade 3 Section 8.2
-	arithmetic.+	Grade 3 Section 8.4
		Grade 3 Section 8.5
3.5 Real-World	4.OA.A Use the four operations with whole numbers	Grade 3 Section 9.1
Problems	to solve problems.	Grade 3 Section 9.3
Multiplication and		
Division		
Chapter 4 Tables and Li	ne Graphs	
4.1 Making and	Not identified as a priority standard. See teaching	
Interpreting a Table	suggestions noted in the letter.	
4.2 Using a Table	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
4.3 Line Graphs	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
Chapter 5 Data and Pro	bability	
5.1 Average	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
5.2 Median, Mode,	Not identified as a priority standard. See teaching	
and Range	suggestions noted in the letter.	
5.3 Stem-and-Leaf	Not identified as a priority standard. See teaching	
Plots	suggestions noted in the letter.	
5.4 Outcomes	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
5.5 Probability as a	4.NF.A Extend understanding of fraction equivalence	Grade 3 Section 14.1
Fraction	and ordering.	Grade 3 Section 14.2
5.6 Real-World	4.NF.A Extend understanding of fraction equivalence	Grade 3 Section 14.1
Problems: Data and	and ordering.	Grade 3 Section 14.2
Probability	4.OA.A Use the four operations with whole numbers	
····,	to solve problems.	
Chapter 6 Fractions and		
6.0 Comparing Unlike	4.NF.A Extend understanding of fraction equivalence	Grade 3 Section 14.4
Fractions	and ordering.	
6.1 Adding Fractions	4.NF.A Extend understanding of fraction equivalence	Grade 3 Section 14.5
Ū	and ordering.	
6.2 Subtracting	4.NF.A Extend understanding of fraction equivalence	Grade 3 Section 14.5
Fractions	and ordering.	
6.3 Mixed Numbers	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
6.4 Improper	Not identified as a priority standard. See teaching	
Fractions	suggestions noted in the letter.	

Grade 4 Section	Priority Standards	Prior Learning
6.5 Renaming	Not identified as a priority standard. See teaching	
Improper Fractions	suggestions noted in the letter.	
and Mixed Numbers		
6.6 Renaming Whole	4.NF.A Extend understanding of fraction equivalence	
Numbers When	and ordering.	
Adding and		
Subtracting Fractions		
6.7 Fraction of a Set	4.NF.B Build fractions from unit fractions by applying	Grade 3 Section 14.6
	and extending previous understandings of	
	operations on whole numbers.+	
6.7.a Multiplying	4.NF.B Build fractions from unit fractions by applying	
Fractions and Whole	and extending previous understandings of	
Numbers	operations on whole numbers.+	
6.8 Real-World	4.NF.B Build fractions from unit fractions by applying	
Problems: Fractions	and extending previous understandings of	
	operations on whole numbers.+	
	4.OA.A Use the four operations with whole numbers	
	to solve problems.	
6.8.a Line Plots with	4.MD.B Represent and interpret data.+	Grade 3 Section 13.3
Fractions of a Unit		
Chapter 7 Decimals		
7.1 Understanding	4.NF.C Understand decimal notation for fractions,	
Tenths	and compare decimal fractions.	
7.2 Understanding	4.NF.C Understand decimal notation for fractions,	
Hundredths	and compare decimal fractions.	
7.3 Comparing	4.NF.C Understand decimal notation for fractions,	
Decimals	and compare decimal fractions.	
7.4 Rounding	Not identified as a priority standard. See teaching	
Decimals	suggestions noted in the letter.	
7.5 Fractions and	4.NF.A Extend understanding of fraction equivalence	
Decimals	and ordering.	
	4.NF.C Understand decimal notation for fractions,	
	and compare decimal fractions.	
Chapter 8 Adding and Su	ubtracting Decimals	
8.1 Adding Decimals	4.NBT.A Generalize place value understanding for	
-	multi-digit whole numbers.	
	4.NBT.B Use place value understanding and	
	properties of operations to perform multi-digit	
	arithmetic.+	
	4.NF.C Understand decimal notation for fractions,	
	and compare decimal fractions.	
8.2 Subtracting	4.NBT.A Generalize place value understanding for	
Decimals	multi-digit whole numbers.	
	4.NBT.B Use place value understanding and	
	· · · · · · · · · · · · · · · · · · ·	
	properties of operations to perform multi-digit	

Grade 4 Section	Priority Standards	Prior Learning
8.3 Real-World	Not identified as a priority standard. See teaching	
Problems: Decimals	suggestions noted in the letter	
Chapter 9 Angles		
9.1 Understanding	Not identified as a priority standard. See teaching	
and Measuring Angles	suggestions noted in the letter.	
9.2 Drawing Angles to	Not identified as a priority standard. See teaching	
180°	suggestions noted in the letter.	
9.3 Turns and Right	Not identified as a priority standard. See teaching	
Angles	suggestions noted in the letter.	
9.3.a Understanding	Not identified as a priority standard. See teaching	
Angle Measurement	suggestions noted in the letter.	
9.3.b Understanding	Not identified as a priority standard. See teaching	
Angle Measurement is	suggestions noted in the letter.	
Additive		
Chapter 10 Perpendicul	ar and Parallel Line Segments	
10.1 Drawing	Not identified as a priority standard. See teaching	
Perpendicular Line	suggestions noted in the letter.	
Segments		
10.2 Drawing Parallel	Not identified as a priority standard. See teaching	
Line Segments	suggestions noted in the letter.	
10.3 Horizontal and	Not identified as a priority standard. See teaching	
Vertical Lines	suggestions noted in the letter.	
Chapter 11 Squares and	Rectangles	
11.1 Squares and	Not identified as a priority standard. See teaching	
Rectangles	suggestions noted in the letter.	
11.2 Properties of	4.OA.A Use the four operations with whole numbers	
Squares and	to solve problems.	
Rectangles		
Chapter 12 Area and Pe		
12.0.a Measurement:	Not identified as a priority standard. See teaching	
Length	suggestions noted in the letter.	
12.0.b Measurement:	Not identified as a priority standard. See teaching	
Mass and Weight	suggestions noted in the letter.	
12.0.c Time	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
12.0.d Real-World	Not identified as a priority standard. See teaching	
Problems:	suggestions noted in the letter.	
Measurement		
12.1 Area of a	4.MD.A Solve problems involving measurement and	Grade 3 Section 19.1
Rectangle	conversion of measurements from a larger unit to a	
	smaller unit.+	
12.2 Rectangles and	4.MD.A Solve problems involving measurement and	Grade 3 Section 19.2
Squares	conversion of measurements from a larger unit to a	Grade 3 Section 19.3
	smaller unit.+	

Grade 4 Section	Priority Standards	Prior Learning
12.3 Composite	4.MD.A Solve problems involving measurement and	
Figures	conversion of measurements from a larger unit to a	
	smaller unit.+	
	4.OA.A Use the four operations with whole numbers	
	to solve problems.	
12.4 Using Formulas	4.OA.A Use the four operations with whole numbers	Grade 3 Section 19.4
for Area and	to solve problems.	
Perimeter	4.MD.A Solve problems involving measurement and	
	conversion of measurements from a larger unit to a	
	smaller unit.+	
Chapter 13 Symmetry		
13.1 Identifying Lines	4.G.A Draw and identify lines and angles, and classify	
of Symmetry	shapes by properties of their lines and angles.+	
13.2 Rotational	Not identified as a priority standard. See teaching	
Symmetry	suggestions noted in the letter.	
13.3 Making	4.G.A Draw and identify lines and angles, and classify	
Symmetric Shapes and	shapes by properties of their lines and angles.+	
Patterns		
Chapter 14 Tessellations	5	
14.1 Identifying	Not identified as a priority standard. See teaching	
Tessellations	suggestions noted in the letter.	
14.2 More	Not identified as a priority standard. See teaching	
Tessellations	suggestions noted in the letter.	

* Priority standards clusters were identified as Priority Instructional Content through Achieve the Core by Student Achievement Partners, Pre-Publication Draft, May 2020. Full documents are available at AchieveTheCore.org.

**International Center for Leadership in Education (ICLE) selected further priority standards, in most cases within the clusters called out by Achieve the Core.

+ This standard selected by ICLE is not within an Achieve the Core cluster.

Math in Focus © 2013 Grade 5

Priority standards were identified through Achieve the Core.* Standards in *italics* were further selected by International Center for Leadership in Education.**

Grade 5 Section	Priority Standards	Prior Learning
Chapter 1 Whole Numb	-	
1.1 Numbers to	5.NBT.A Understand the place value system.*	Grade 4 Section 1.1
10,000,000		
1.2 Place Value	5.NBT.A Understand the place value system.	Grade 4 Section 1.1
1.3 Comparing	5.NBT.A Understand the place value system.	Grade 4 Section 1.2
Numbers to		
10,000,000		
1.4 Rounding and	Not identified as a priority standard. See teaching	
Estimating	suggestions noted in the letter.	
Chapter 2 Whole Numb	er Multiplication and Division	
2.1 Using a Calculator	5.NBT.B Perform operations with multi-digit whole	
_	numbers and with decimals to hundredths.**	
2.2 Multiplying by	5.NBT.A Understand the place value system.	
Tens, Hundreds, or	5.NBT.B Perform operations with multi-digit whole	
Thousands	numbers and with decimals to hundredths.	
2.2a Multiplying by	5.NBT.A Understand the place value system.	
Powers of Ten		
2.3 Multiplying by 2-	5.NBT.B Perform operations with multi-digit whole	Grade 4 Section 3.2
Digit Numbers	numbers and with decimals to hundredths.	
2.4 Dividing by Tens,	5.NBT.A Understand the place value system.	
Hundreds, or	5.NBT.B Perform operations with multi-digit whole	
Thousands	numbers and with decimals to hundredths.	
2.5 Dividing by 2-Digit	5.NBT.B Perform operations with multi-digit whole	Grade 4 Section 3.4
Numbers	numbers and with decimals to hundredths.	
2.6 Order of	Not identified as a priority standard. See teaching	
Operations	suggestions noted in the letter.	
2.6a Evaluating	Not identified as a priority standard. See teaching	
Expressions with	suggestions noted in the letter.	
Parentheses, Brackets,		
and Braces		
2.7 Real-World	5.NBT.B Perform operations with multi-digit whole	Grade 4 Section 3.5
Problems:	numbers and with decimals to hundredths.	
Multiplication and		
Division		
Chapter 3 Fractions and	Mixed Numbers	
3.1 Adding Unlike	5.NF.A Use equivalent fractions as a strategy to add	Grade 4 Section 6.1
Fractions	and subtract fractions.	
3.2 Subtracting Unlike	5.NF.A Use equivalent fractions as a strategy to add	Grade 4 Section 6.2
Fractions	and subtract fractions.	
3.3 Fractions, Mixed	5.NF.B Apply and extend previous understandings	Grade 4 Section 6.3
Numbers, and Division	of multiplication and division to multiply and divide	Grade 4 Section 6.4
Expressions	fractions.	Grade 4 Section 6.5

Houghton Mifflin Harcourt | hmhco.com

Priority Standards	Prior Learning
5.NF.B Apply and extend previous understandings	Grade 4 Section 7.5
of multiplication and division to multiply and divide	
fractions	
5.NF.A Use equivalent fractions as a strategy to add	Grade 4 Section 6.1
and subtract fractions.	Grade 4 Section 6.3
5.NF.A Use equivalent fractions as a strategy to add	Grade 4 Section 6.1
and subtract fractions.	Grade 4 Section 6.3
5.NF.A Use equivalent fractions as a strategy to add	Grade 4 Section 6.8
and subtract fractions.	
5.NF.B Apply and extend previous understandings	
of multiplication and division to multiply and divide	
fractions.	
nd Dividing Fractions and Mixed Numbers	
5.NF.B Apply and extend previous understandings	
of multiplication and division to multiply and divide	
fractions.	
5.NF.B Apply and extend previous understandings of	
multiplication and division to multiply and divide	
fractions.	
5.NF.B Apply and extend previous understandings of	
multiplication and division to multiply and divide	
fractions.	
5.NF.B Apply and extend previous understandings of	
multiplication and division to multiply and divide	
fractions.	
5.NF.B Apply and extend previous understandings of	
multiplication and division to multiply and divide	
fractions.	
5.NF.B Apply and extend previous understandings of	
multiplication and division to multiply and divide	
fractions.	
5.NF.B Apply and extend previous understandings of	
multiplication and division to multiply and divide	
fractions.	
5.NF.B Apply and extend previous understandings	
of multiplication and division to multiply and divide	
fractions.	
5.NF.B Apply and extend previous understandings of	
multiplication and division to multiply and divide	
	 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions 5.NF.A Use equivalent fractions as a strategy to add and subtract fractions. 5.NF.A Use equivalent fractions as a strategy to add and subtract fractions. 5.NF.A Use equivalent fractions as a strategy to add and subtract fractions. 5.NF.A Use equivalent fractions as a strategy to add and subtract fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. d Dividing Fractions and Mixed Numbers 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 5.NF.B Apply and extend previous understandings of multiplic

Grade 5 Section	Priority Standards	Prior Learning
4.7a Real-World	5.NF.B Apply and extend previous understandings of	_
Problems: Dividing a	multiplication and division to multiply and divide	
Whole Number by a	fractions.	
Unit Fraction		
Chapter 5 Algebra		
5.1 Using Letters as	Not identified as a priority standard. See teaching	
Numbers	suggestions noted in the letter.	
5.2 Simplifying	Not identified as a priority standard. See teaching	
Algebraic Expressions	suggestions noted in the letter.	
5.3 Inequalities and	Not identified as a priority standard. See teaching	
Equations	suggestions noted in the letter.	
5.4 Real-World	Not identified as a priority standard. See teaching	
Problems: Algebra	suggestions noted in the letter.	
Chapter 6 Area of a Tria		
6.0 Finding the Area of	5.NF.B Apply and extend previous understandings of	Grade 4 Section 12.1
a Rectangle with	multiplication and division to multiply and divide	Grade 4 Section 12.4
Fractional Side	fractions.	
Lengths		
6.1 Base and Height of	Not identified as a priority standard. See teaching	
a Triangle	suggestions referenced in the letter.	
6.2 Finding the Area of	Not identified as a priority standard. See teaching	
a Triangle	suggestions referenced in the letter.	
Chapter 7 Ratio		
7.1 Finding Ratio	Not identified as a priority standard. See teaching	
0	suggestions noted in the letter.	
7.2 Equivalent Ratios	5.NF.B Apply and extend previous understandings	
	of multiplication and division to multiply and divide	
	fractions.	
7.3 Real-World	Not identified as a priority standard. See teaching	
Problems: Ratios	suggestions noted in the letter.	
7.4 Ratios in Fraction	Not identified as a priority standard. See teaching	
Form	suggestions noted in the letter.	
7.5 Comparing Three	5.NF.B Apply and extend previous understandings	
Quantities	of multiplication and division to multiply and divide	
	fractions.	
7.6 Real-World	5.NF.B Apply and extend previous understandings	
Problems: More	of multiplication and division to multiply and divide	
Ratios	fractions.	
Chapter 8 Decimals		
8.1 Understanding	5.NBT.A Understand the place value system.	Grade 4 Section 7.1
Thousandths	5.NBT.B Perform operations with multi-digit whole	Grade 4 Section 7.2
	numbers and with decimals to hundredths.	
8.2 Comparing and	5.NBT.A Understand the place value system.	Grade 4 Section 7.3
Rounding Decimals		Grade 4 Section 7.4

Grade 5 Section	Priority Standards	Prior Learning
8.3 Rewriting	5.NBT.A Understand the place value system.	Grade 4 Section 7.5
Decimals as Fractions		
and Mixed Numbers		
Chapter 9 Multiplying a	nd Dividing Decimals	
9.1 Multiplying	5.NBT.A Understand the place value system.	
Decimals	5.NBT.B Perform operations with multi-digit whole	
	numbers and with decimals to hundredths.	
9.2 Multiplying by	5.NBT.A Understand the place value system.	
Tens, Hundreds, or	5.NBT.B Perform operations with multi-digit whole	
Thousands	numbers and with decimals to hundredths.	
mousunus	numbers and with decimals to numareaths.	
9.2.a Multiplying	5.NBT.A Understand the place value system.	
Decimals by Powers of	, , ,	
Ten		
9.3 Dividing Decimals	5.NBT.A Understand the place value system.	
	5.NBT.B Perform operations with multi-digit whole	
	numbers and with decimals to hundredths.	
9.4 Dividing by Tens,	5.NBT.A Understand the place value system.	
Hundreds, or	5.NBT.B Perform operations with multi-digit whole	
Thousands	numbers and with decimals to hundredths.	
9.5 Estimating	5.NBT.A Understand the place value system.	
Decimals	5.NBT.B Perform operations with multi-digit whole	
	numbers and with decimals to hundredths.	
9.6 Real-World	5.NBT.A Understand the place value system.	
Problems: Decimals	5.NBT.B Perform operations with multi-digit whole	
	numbers and with decimals to hundredths	
Chapter 10 Percent		
10.1 Percent	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
10.2 Expressing	Not identified as a priority standard. See teaching	
Fractions as Percents	suggestions noted in the letter.	
10.3 Percent of a	Not identified as a priority standard. See teaching	
Number	suggestions noted in the letter.	
10.4 Real-World	Not identified as a priority standard. See teaching	
Problems: Percent	suggestions noted in the letter.	
Chapter 11 Graphs and		
11.1 Making and	Not identified as a priority standard. See teaching	
Interpreting Double	suggestions noted in the letter.	
Bar Graphs		
11.1a Making and	Not identified as a priority standard. See teaching	
Interpreting Line Plots	suggestions noted in the letter.	
11.2 Graphing an	5.G.A Graph points on the coordinate plane to solve	Grade 4 Section 4.3
Equation	real-world and mathematical problems.	
11.3 Combinations	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	

Grade 5 Section	Priority Standards	Prior Learning
11.4 Theoretical	Not identified as a priority standard. See teaching	<u> </u>
Probability and	suggestions noted in the letter.	
Experimental		
Probability		
Chapter 12 Angles		
12.1 Angles on a Line	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
12.2 Angles at a Point	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
12.3 Vertical Angles	Not identified as a priority standard. See teaching	
	suggestions noted in the letter.	
Chapter 13 Properties o	f Triangles and Four-Sided Figures	
13.1 Classifying	Not identified as a priority standard. See teaching	
Triangles	suggestions noted in the letter.	
13.2 Measures of	Not identified as a priority standard. See teaching	
Angles of a Triangle	suggestions noted in the letter.	
13.3 Right, Isosceles,	Not identified as a priority standard. See teaching	
and Equilateral	suggestions noted in the letter.	
Triangles		
13.4 Triangle	Not identified as a priority standard. See teaching	
Inequalities	suggestions noted in the letter.	
13.5 Parallelogram,	Not identified as a priority standard. See teaching	
Rhombus, and	suggestions noted in the letter.	
Trapezoid		
Chapter 14 Three-Dime	nsional Shapes	
14.1 Prisms and	Not identified as a priority standard. See teaching	
Pyramids	suggestions noted in the letter.	
14.2 Cylinder, Sphere,	Not identified as a priority standard. See teaching	
and Cone	suggestions noted in the letter.	
Chapter 15 Surface Area		
15.1 Building Solids	Not identified as a priority standard. See teaching	
Using Unit Cubes	suggestions noted in the letter.	
15.2 Drawing Cubes	Not identified as a priority standard. See teaching	
and Rectangular	suggestions noted in the letter.	
Prisms		
15.3 Nets and Surface	5.NBT.B Perform operations with multi-digit whole	Grade 4 Section 12.1
Area	numbers and with decimals to hundredths.	Grade 4 Section 12.2
15.4 Understanding	5.MD.C Geometric measurement: understand	
and Measuring	concepts of volume and relate volume to	
Volume	multiplication and to addition.	
15.5 Volume of a	5.MD.C Geometric measurement: understand	
Rectangular Prism and	concepts of volume and relate volume to	
Liquid	multiplication and to addition.	
15.5.a Volume of a	5.MD.C Geometric measurement: understand	
Rectangular Prism	concepts of volume and relate volume to	
	multiplication and to addition.	

Grade 5 Section	Priority Standards	Prior Learning
15.5.b Volume of Solid	5.MD.C Geometric measurement: understand	
Figures	concepts of volume and relate volume to	
	multiplication and to addition.	

* Priority standards clusters were identified as Priority Instructional Content through Achieve the Core by Student Achievement Partners, Pre-Publication Draft, May 2020. Full documents are available at AchieveTheCore.org.

- **International Center for Leadership in Education (ICLE) selected further priority standards, in most cases within the clusters called out by Achieve the Core.
- + This standard selected by ICLE is not within an Achieve the Core cluster.