

An Alignment of
**Nebraska College and Career Ready
Standards for Mathematics 2015**

To the Lessons of

enVisionmath[®]2.0
SCOTT FORESMAN • ADDISON WESLEY

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Grade 4



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Introduction

enVisionmath2.0 is a comprehensive K-6 mathematics curriculum that provides the focus, coherence, and rigor required by the CCSSM. **enVisionmath2.0** offers a balanced instructional model with an emphasis on conceptual understanding, fluency, and application through rigorous problem solving. Pearson Realize online learning management system offers the flexibility and data teachers need to customize content and monitor student progress so that all students demonstrate proficiency in the CCSSM.

The new **enVisionmath2.0** is organized to promote **Focus, Coherence, and Rigor**.

- Focus on **Common Core Clusters**
- Develop **Coherence** across and within grades
- **Conceptual Understanding** lays the foundation for **Rigor**

Problem-based learning and visual learning personalize learning of rigorous mathematics! The new **enVisionmath2.0** program engages learners with:

- Interactive learning aids and video tutorials
- Personalized practice and immediate feedback
- Built-in RtI activities in multiple modalities

The new **enVisionmath2.0** program lets you customize content, auto-assign differentiation, and use assessment data quickly and easily to adjust instruction for your learners.

- Upload district content and other favorite resources
- Customize topics and lessons
- Assess in the format of the new high-stakes assessments

enVisionmath2.0 is the next evolution of a proven program that supports the latest interpretation of the CCSSM and the Next Generation assessment objectives.

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Topic 1 Generalize Place Value Understanding	
1-1 Numbers Through One Million	MA 4.1.1.a Read, write, and demonstrate multiple equivalent representations for whole numbers up to one million and decimals to the hundredths, using objects, visual representations, standard form, word form, and expanded notation.
1-2 Place Value Relationships	MA 4.1.1.a Read, write, and demonstrate multiple equivalent representations for whole numbers up to one million and decimals to the hundredths, using objects, visual representations, standard form, word form, and expanded notation. MA 4.1.1.b Recognize a digit in one place represents ten times what it represents in the place to its right and 1/10 what it represents in the place to its left.
1-3 Compare Whole Numbers	MA 4.1.1.a Read, write, and demonstrate multiple equivalent representations for whole numbers up to one million and decimals to the hundredths, using objects, visual representations, standard form, word form, and expanded notation. MA 4.1.1.f Compare whole numbers up to one million and decimals through the hundredths place using $>$, $<$, and $=$ symbols, and visual representations.
1-4 Round Whole Numbers	MA 4.1.1.g Round a multi-digit whole number to any given place.
1-5 Math Practices And Problem Solving	MA 4.1.1.a Read, write, and demonstrate multiple equivalent representations for whole numbers up to one million and decimals to the hundredths, using objects, visual representations, standard form, word form, and expanded notation. MA 4.1.1.b Recognize a digit in one place represents ten times what it represents in the place to its right and 1/10 what it represents in the place to its left.

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Topic 2 Fluently Add and Subtract Multi-Digit Whole Numbers	
2-1 Mental Math: Find Sums and Differences	MA 4.1.2.a Add and subtract multi-digit numbers using the standard algorithm.
2-2 Mental Math: Estimate Sums and Differences	MA 4.1.2.a Add and subtract multi-digit numbers using the standard algorithm. MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity. MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.
2-3 Add Whole Numbers	MA 4.1.2.a Add and subtract multi-digit numbers using the standard algorithm. MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity. MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.
2-4 Subtract Whole Numbers	MA 4.1.2.a Add and subtract multi-digit numbers using the standard algorithm. MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity. MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.
2-5 Subtract Across Zeros	MA 4.1.2.a Add and subtract multi-digit numbers using the standard algorithm.

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2-6 Math Practices And Problem Solving	<p>MA 4.1.2.a Add and subtract multi-digit numbers using the standard algorithm.</p> <p>MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity.</p> <p>MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.</p>
Topic 3 Use Strategies and Properties to Multiply by 1-Digit Numbers	
3-1 Mental Math: Multiply by Multiples of 10, 100, and 1,000	MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.
3-2 Mental Math: Round to Estimate Products	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p>
3-3 The Distributive Property	MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.
3-4 Mental Math Strategies for Multiplication	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p>
3-5 Arrays and Partial Products	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p>

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3-6 Use Partial Products to Multiply by 1-Digit Numbers.	MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.
3-7 Multiply 2- and 3-Digit Numbers by 1-Digit Numbers	MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.
3-8 Multiply 4-Digit by 1-Digit Numbers	MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.
3-9 Multiply by 1-Digit Numbers	MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.
3-10 Math Practices And Problem Solving	MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number. MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity.
Topic 4 Use Strategies and Properties to Multiply by 2-Digit Numbers	
4-1 Mental Math: Multiply Multiples of 10	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.

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4-2 Use Models to Multiply 2-Digit Numbers by Multiples of 10.	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.
4-3 Estimate: Use Rounding	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.
4-4 Estimate: Use Compatible Numbers	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.
4-5 Arrays and Partial Products	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.
4-6 Multiply Using the Distributive Property	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.
4-7 Use Partial Products to Multiply by 2-Digit Numbers	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.

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4-8 Multiply 2-Digit Numbers by Multiples of 10.	MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.
4-9 Multiply 2-Digit by 2-Digit Numbers	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.
4-10 Continue to Multiply by 2-Digit Numbers	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.
4-11 Math Practices And Problem Solving	MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm. MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies. MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity. MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.
Topic 5 Use Strategies and Properties to Divide by 1-Digit Numbers	
5-1 Mental Math: Find Quotients	MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.

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5-2 Mental Math: Estimate Quotients	MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.
5-3 Mental Math: Estimate Quotients for Greater Dividends	MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.
5-4 Interpret Remainders	<p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p> <p>MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.</p>
5-5 Division as Sharing	<p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p>
5-6 Use Partial Quotients to Divide	<p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p>
5-7 Use Partial Quotients to Divide: Greater Dividends	<p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p>

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5-8 Divide with 1-Digit Numbers	MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.
5-9 Continue to Divide with 1-Digit Numbers	MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.
5-10 Math Practices And Problem Solving	<p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p> <p>MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity.</p> <p>MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.</p>
Topic 6 Use Operations with Whole Numbers to Solve Problems	
6-1 Solve Comparison Situations	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.</p>
6-2 Continue to Solve Comparison Situations	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.</p> <p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p>

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6-3 Solve Multi-Step Problems	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.</p> <p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p> <p>MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity.</p> <p>MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.</p>
6-4 Solve More Multi-Step Problems	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.</p> <p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p> <p>MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity.</p>

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(Continued) 6-4 Solve More Multi-Step Problems	MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.
6-5 Math Practices And Problem Solving	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.</p> <p>MA 4.1.2.d Divide up to a four-digit whole number by a one-digit divisor with and without a remainder.</p> <p>MA 4.1.2.h Determine the reasonableness of whole number products and quotients in real-world problems using estimation, compatible numbers, mental computations, or other strategies.</p> <p>MA 4.2.2.a Solve one- and two-step problems which use any or all of the four basic operations and include the use of a letter to represent the unknown quantity.</p> <p>MA 4.2.3.a Solve real-world problems involving multi-step equations comprised of whole numbers using the four operations, including interpreting remainders.</p>
Topic 7 Factors and Multiples	
7-1 Understand Factors	<p>MA 4.1.1.d Determine whether a given whole number up to 100 is a multiple of a given one-digit number.</p> <p>MA 4.1.1.e Determine factors of any whole number up to 100.</p>
7-2 Factors	<p>MA 4.1.1.d Determine whether a given whole number up to 100 is a multiple of a given one-digit number.</p> <p>MA 4.1.1.e Determine factors of any whole number up to 100.</p>

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7-3 Math Practices And Problem Solving	<p>MA 4.1.1.d Determine whether a given whole number up to 100 is a multiple of a given one-digit number.</p> <p>MA 4.1.1.e Determine factors of any whole number up to 100.</p>
7-4 Prime and Composite Numbers	MA 4.1.1.c Classify a number up to 100 as prime or composite.
7-5 Multiples	<p>MA 4.1.1.d Determine whether a given whole number up to 100 is a multiple of a given one-digit number.</p> <p>MA 4.1.1.e Determine factors of any whole number up to 100.</p>
Topic 8 Extend Understanding of Fraction Equivalence and Ordering	
8-1 Equivalent Fractions: Area Models	MA 4.1.1.i Generate and explain equivalent fractions by multiplying by an equivalent fraction of 1.
8-2 Equivalent Fractions: Number Lines	MA 4.1.1.i Generate and explain equivalent fractions by multiplying by an equivalent fraction of 1.
8-3 Generate Equivalent Fractions: Multiplication	MA 4.1.1.i Generate and explain equivalent fractions by multiplying by an equivalent fraction of 1.
8-4 Generate Equivalent Fractions: Division	MA 4.1.1.i Generate and explain equivalent fractions by multiplying by an equivalent fraction of 1.
8-5 Use Benchmarks to Compare Fractions	<p>MA 4.1.1.i Generate and explain equivalent fractions by multiplying by an equivalent fraction of 1.</p> <p>MA 4.1.1.k Compare and order fractions having unlike numerators and unlike denominators using visual representations (number line), comparison symbols and verbal reasoning (e.g., using benchmarks or common numerators or common denominators).</p>

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8-6 Compare Fractions	MA 4.1.1.k Compare and order fractions having unlike numerators and unlike denominators using visual representations (number line), comparison symbols and verbal reasoning (e.g., using benchmarks or common numerators or common denominators).
8-7 Math Practices And Problem Solving	MA 4.1.1.i Generate and explain equivalent fractions by multiplying by an equivalent fraction of 1. MA 4.1.1.k Compare and order fractions having unlike numerators and unlike denominators using visual representations (number line), comparison symbols and verbal reasoning (e.g., using benchmarks or common numerators or common denominators).
Topic 9 Understand Addition and Subtraction of Fractions	
9-1 Model Addition of Fractions	MA 4.1.2.e Use drawings, words, and symbols to explain the meaning of addition and subtraction of fractions with like denominators.
9-2 Decompose Fractions	MA 4.1.1.i Decompose a fraction into a sum of fractions with the same denominator in more than one way and record each decomposition with an equation and a visual representation.
9-3 Add Fractions with Like Denominators	MA 4.1.2.e Use drawings, words, and symbols to explain the meaning of addition and subtraction of fractions with like denominators. MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.
9-4 Model Subtraction of Fractions	MA 4.1.2.e Use drawings, words, and symbols to explain the meaning of addition and subtraction of fractions with like denominators.

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9-5 Subtract Fractions with Like Denominators	<p>MA 4.1.2.e Use drawings, words, and symbols to explain the meaning of addition and subtraction of fractions with like denominators.</p> <p>MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.</p>
9-6 Add and Subtract Fractions with Like Denominators	<p>MA 4.1.2.e Use drawings, words, and symbols to explain the meaning of addition and subtraction of fractions with like denominators.</p>
9-7 Estimate Fraction Sums and Differences	<p>MA 4.1.2.e Use drawings, words, and symbols to explain the meaning of addition and subtraction of fractions with like denominators.</p>
9-8 Model Addition and Subtraction of Mixed Numbers	<p>MA 4.1.1.j Explain how to change a mixed number to a fraction and how to change a fraction to a mixed number.</p> <p>MA 4.1.2.f Add and subtract fractions and mixed numbers with like denominators.</p>
9-9 Add Mixed Numbers	<p>MA 4.1.1.j Explain how to change a mixed number to a fraction and how to change a fraction to a mixed number.</p> <p>MA 4.1.2.f Add and subtract fractions and mixed numbers with like denominators.</p>
9-10 Subtract Mixed Numbers	<p>MA 4.1.1.j Explain how to change a mixed number to a fraction and how to change a fraction to a mixed number.</p> <p>MA 4.1.2.f Add and subtract fractions and mixed numbers with like denominators.</p>

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9-11 Math Practices And Problem Solving	<p>MA 4.1.2.e Use drawings, words, and symbols to explain the meaning of addition and subtraction of fractions with like denominators.</p> <p>MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.</p>
Topic 10 Extend Multiplication Concepts to Fractions	
10-1 Fractions as Multiples of Unit Fractions: Use Models	MA 4.1.2.g Multiply a fraction by a whole number.
10-2 Multiply a Fraction by a Whole Number: Use Models	MA 4.1.2.g Multiply a fraction by a whole number.
10-3 Multiply a Fraction by a Whole Number: Use Symbols	MA 4.1.2.g Multiply a fraction by a whole number.
10-4 Multiply a Whole Number and a Mixed Number	MA 4.1.2.g Multiply a fraction by a whole number.
10-5 Solve Time Problems	<p>MA 4.1.2.g Multiply a fraction by a whole number.</p> <p>MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.</p>
10-6 Math Practices And Problem Solving	<p>MA 4.1.2.g Multiply a fraction by a whole number.</p> <p>MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.</p>
Topic 11 Represent and Interpret Data on Line Plots	
11-1 Read Line Plots	<p>MA 4.4.1.a Represent data using line plots where the horizontal scale is marked off in appropriate units (e.g., whole numbers, halves, quarters, or eighths).</p> <p>MA 4.4.2.a Solve problems involving addition or subtraction of fractions using information presented in line plots.</p>

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11-2 Make Line Plots	<p>MA 4.1.1.i Generate and explain equivalent fractions by multiplying by an equivalent fraction of 1.</p> <p>MA 4.4.1.a Represent data using line plots where the horizontal scale is marked off in appropriate units (e.g., whole numbers, halves, quarters, or eighths).</p> <p>MA 4.4.2.a Solve problems involving addition or subtraction of fractions using information presented in line plots.</p>
11-3 Use Line Plots to Solve Problems	<p>MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.</p> <p>MA 4.4.1.a Represent data using line plots where the horizontal scale is marked off in appropriate units (e.g., whole numbers, halves, quarters, or eighths).</p> <p>MA 4.4.2.a Solve problems involving addition or subtraction of fractions using information presented in line plots.</p>
11-4 Math Practices And Problem Solving	<p>MA 4.4.1.a Represent data using line plots where the horizontal scale is marked off in appropriate units (e.g., whole numbers, halves, quarters, or eighths).</p> <p>MA 4.4.2.a Solve problems involving addition or subtraction of fractions using information presented in line plots.</p>
Topic 12 Understand and Compare Decimals	
12-1 Fractions and Decimals	MA 4.1.1.h Use decimal notation for fractions with denominators of 10 or 100.
12-2 Fractions and Decimals on the Number Line	MA 4.1.1.h Use decimal notation for fractions with denominators of 10 or 100.
12-3 Compare Decimals	MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.

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12-4 Add Fractions with Denominators of 10 and 100	MA 4.1.1.h Use decimal notation for fractions with denominators of 10 or 100.
12-5 Solve Word Problems Involving Money	MA 4.1.1.h Use decimal notation for fractions with denominators of 10 or 100. MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.
12-6 Math Practices And Problem Solving	MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.
Topic 13 Measurement: Find Equivalence in Units of Measure	
13-1 Equivalence with Customary Units of Length	MA 4.1.2.g Multiply a fraction by a whole number. MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators. MA 4.3.3.b Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve real-world problems involving time, length, weight, mass, capacity, and volume. MA 4.3.3.c Generate simple conversions from a larger unit to a smaller unit within the customary and metric systems of measurement.
13-2 Equivalence with Customary Units of Capacity	MA 4.1.2.g Multiply a fraction by a whole number. MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.

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(Continued) 13-2 Equivalence with Customary Units of Capacity	<p>MA 4.3.3.b Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve real-world problems involving time, length, weight, mass, capacity, and volume.</p> <p>MA 4.3.3.c Generate simple conversions from a larger unit to a smaller unit within the customary and metric systems of measurement.</p>
13-3 Equivalence with Customary Units of Weight	<p>MA 4.1.2.g Multiply a fraction by a whole number.</p> <p>MA 4.2.3.b Solve real-world problems involving addition and subtraction of fractions and mixed numbers with like denominators.</p> <p>MA 4.3.3.b Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve real-world problems involving time, length, weight, mass, capacity, and volume.</p> <p>MA 4.3.3.c Generate simple conversions from a larger unit to a smaller unit within the customary and metric systems of measurement.</p>
13-4 Equivalence with Metric Units of Length	<p>MA 4.3.3.b Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve real-world problems involving time, length, weight, mass, capacity, and volume.</p> <p>MA 4.3.3.c Generate simple conversions from a larger unit to a smaller unit within the customary and metric systems of measurement.</p>

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13-5 Equivalence with Metric Units of Capacity and Mass	<p>MA 4.3.3.b Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve real-world problems involving time, length, weight, mass, capacity, and volume.</p> <p>MA 4.3.3.c Generate simple conversions from a larger unit to a smaller unit within the customary and metric systems of measurement.</p>
13-6 Solve Perimeter and Area Problems	<p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.</p> <p>MA 4.1.2.g Multiply a fraction by a whole number.</p> <p>MA 4.3.3.a Apply perimeter and area formulas for rectangles.</p> <p>MA 4.3.3.b Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve real-world problems involving time, length, weight, mass, capacity, and volume.</p>
13-7 Math Practices And Problem Solving	<p>MA 4.1.2.a Add and subtract multi-digit numbers using the standard algorithm.</p> <p>MA 4.1.2.b Multiply a four-digit whole number by a one-digit whole number.</p> <p>MA 4.1.2.c Multiply a two-digit whole number by a two-digit whole number using the standard algorithm.</p> <p>MA 4.3.3.a Apply perimeter and area formulas for rectangles.</p> <p>MA 4.3.3.b Identify and use the appropriate tools, operations, and units of measurement, both customary and metric, to solve real-world problems involving time, length, weight, mass, capacity, and volume.</p>

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Topic 14 Algebra: Generate and Analyze Patterns	
14-1 Number Sequences	MA 4.2.1.b Generate and analyze a number or shape pattern to follow a given rule, such as $y = 3x + 5$ is a rule to describe a relationship between two variables and can be used to find a second number when a first number is given.
14-2 Patterns: Number Rules	MA 4.2.1.b Generate and analyze a number or shape pattern to follow a given rule, such as $y = 3x + 5$ is a rule to describe a relationship between two variables and can be used to find a second number when a first number is given.
14-3 Patterns: Repeating Shapes	MA 4.2.1.b Generate and analyze a number or shape pattern to follow a given rule, such as $y = 3x + 5$ is a rule to describe a relationship between two variables and can be used to find a second number when a first number is given.
14-4 Math Practices And Problem Solving	MA 4.2.1.b Generate and analyze a number or shape pattern to follow a given rule, such as $y = 3x + 5$ is a rule to describe a relationship between two variables and can be used to find a second number when a first number is given.
Topic 15 Geometric Measurement: Understand Concepts of Angles and Angle Measurement	
15-1 Lines, Rays, and Angles	MA 4.3.1.a Recognize angles as geometric shapes that are formed where two rays share a common endpoint.
15-2 Understand Angles and Unit Angles	<p>MA 4.3.1.a Recognize angles as geometric shapes that are formed where two rays share a common endpoint.</p> <p>MA 4.3.1.b Classify an angle as acute, obtuse, or right.</p> <p>MA 4.3.1.g Sketch angles of a specified measure.</p>

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15-3 Measure with Unit Angles	<p>MA 4.3.1.a Recognize angles as geometric shapes that are formed where two rays share a common endpoint.</p> <p>MA 4.3.1.g Sketch angles of a specified measure.</p>
15-4 Measure and Draw Angles	<p>MA 4.3.1.f Measure angles in whole number degrees using a protractor.</p> <p>MA 4.3.1.g Sketch angles of a specified measure.</p>
15-5 Add and Subtract Angle Measures	<p>MA 4.3.1.f Measure angles in whole number degrees using a protractor.</p> <p>MA 4.3.1.g Sketch angles of a specified measure.</p>
15-6 Math Practices And Problem Solving	<p>MA 4.3.1.f Measure angles in whole number degrees using a protractor.</p> <p>MA 4.3.1.g Sketch angles of a specified measure.</p>
Topic 16 Lines, Angles, and Shapes	
16-1 Lines	<p>MA 4.3.1.c Identify and draw points, lines, line segments, rays, angles, parallel lines, perpendicular lines, and intersecting lines, and recognize them in two-dimensional figures.</p>
16-2 Classify Triangles	<p>MA 4.3.1.b Classify an angle as acute, obtuse, or right.</p> <p>MA 4.3.1.d Classify two-dimensional shapes based on the presence or absence of parallel and perpendicular lines, or the presence or absence of specific angles.</p> <p>MA 4.3.1.e Identify right triangles.</p>
16-3 Classify Quadrilaterals	<p>MA 4.3.1.c Identify and draw points, lines, line segments, rays, angles, parallel lines, perpendicular lines, and intersecting lines, and recognize them in two-dimensional figures.</p>

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(Continued) 16-3 Classify Quadrilaterals	MA 4.3.1.d Classify two-dimensional shapes based on the presence or absence of parallel and perpendicular lines, or the presence or absence of specific angles.
16-4 Line Symmetry	MA 4.3.1.h Recognize and draw lines of symmetry in two-dimensional shapes.
16-5 Draw Shapes with Line Symmetry	MA 4.3.1.h Recognize and draw lines of symmetry in two-dimensional shapes.
16-6 Math Practices And Problem Solving	MA 4.3.1.d Classify two-dimensional shapes based on the presence or absence of parallel and perpendicular lines, or the presence or absence of specific angles. MA 4.3.1.e Identify right triangles.