

A Correlation of
**Missouri Learning Standards for
Mathematics 2016
Grade 4**



To the

enVision® Mathematics

©2020

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

Introduction

enVision® Mathematics ©2020 is the latest offering of the nationally recognized Grades K-12 series, created for print, digital, and blended instruction. Problem-Based Learning connects with Visual Learning to deep conceptual understanding. Interactive multimedia experiences engage learners in student choice and solving rich problems. Extensive customization and differentiation options empower every teacher and student.

UNDERSTANDING

A simple lesson design provides a clear, intentional pathway. Starting on a firm foundation of conceptual understanding, students can connect and apply math ideas in amazing ways. High-interest math projects invite all students to be active participants.

A simple lesson design provides a clear, intentional pathway.

STEP 1 Problem-Based Learning

STEP 2 Visual Learning

STEP 3 Assess and Differentiate

ASSESSMENT

The enVision Assessment Suite offers options to move students toward mastery of state standards while driving instructional differentiation.

DIAGNOSTIC Assessment

Reading Test, Diagnostic Test (Math Diagnosis and Intervention System), Review What You Know

FORMATIVE Assessment

SCOUT Observational Assessment used during Solve & Share, Do You Understand?

And Convince Me! Guide Practice, Quick Check

SUMMATIVE Assessment

Topic Assessments, Topic Performance Assessments, Examview Test Generator, Fluency Assessments, Cumulative/Benchmarks Assessments, Progress Monitoring Assessments

INSTRUCTIONAL SUPPORT

Gain a new perspective on your teaching with embedded strategies, methods, and a wide range of Professional Development opportunities in print and digital formats.

Ideas, Inspiration, and Teaching Methods

Math background for every Topic and Lesson serves as an easy-to-access math methods course.

Make every lesson perfect for you. Access all digital content, assessments, and management tools Realize.com.

Kids See the Math. Teachers See Results.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

Table of Contents

Topic 1: Generalize Place Value Understanding	1
Topic 2: Fluently Add and Subtract Multi-Digit Whole Numbers.....	1
Topic 3: Use Strategies and Properties to Multiply by 1-Digit Numbers	2
Topic 4 Use Strategies and Properties to Multiply by 2-Digit Numbers.....	3
Topic 5: Use Strategies and Properties to Divide by 1-Digit Numbers	4
Topic 6: Use Operations with Whole Numbers to Solve Problems.....	6
Topic 7: Factors and Multiples	8
Topic 8: Extend Understanding of Fraction Equivalence and Ordering.....	9
Topic 9: Understand Addition and Subtraction of Fractions	10
Topic 10: Extend Multiplication Concepts to Fractions	11
Topic 11: Represent and Interpret Data on Line Plots.....	12
Topic 12: Understand and Compare Decimals.....	13
Topic 13: Measurement: Find Equivalence in Units of Measure	14
Topic 14: Algebra: Generate and Analyze Patterns	16
Topic 15: Geometric Measurement: Understand Concepts of Angles and Angle Measurement.....	16
Topic 16: Lines, Angles, and Shapes	17

**A Correlation of Missouri Learning Standards, 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Topic 1: Generalize Place Value Understanding	
Lesson 1-1: Numbers Through One Million	4.NBT.A.2 Read, write and identify multi-digit whole numbers up to one million using number names, base ten numerals and expanded form. 4.NBT.A.3 Compare two multi-digit numbers using the symbols $>$, $=$ or $<$, and justify the solution.
Lesson 1-2: Place Value Relationships	4.NBT.A.4 Understand that in a multi-digit whole number, a digit represents 10 times what it would represent in the place to its right.
Lesson 1-3: Compare Whole Numbers	4.NBT.A.2 Read, write and identify multi-digit whole numbers up to one million using number names, base ten numerals and expanded form. 4.NBT.A.3 Compare two multi-digit numbers using the symbols $>$, $=$ or $<$, and justify the solution.
Lesson 1-4: Round Whole Numbers	4.NBT.A.1 Round multi-digit whole numbers to any place.
Lesson 1-5: Problem Solving: Construct Arguments	4.NBT.A.4 Understand that in a multi-digit whole number, a digit represents 10 times what it would represent in the place to its right. 4.NBT.A.2 Read, write and identify multi-digit whole numbers up to one million using number names, base ten numerals and expanded form. 4.NBT.A.3 Compare two multi-digit numbers using the symbols $>$, $=$ or $<$, and justify the solution. 4.NBT.A.1 Round multi-digit whole numbers to any place.
Topic 2: Fluently Add and Subtract Multi-Digit Whole Numbers	
Lesson 2-1: Finding Sums and Differences with Mental Math	4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.
Lesson 2-2: Estimate Sums and Differences	4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.
Lesson 2-3: Add Whole Numbers	4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 2-4: Add Greater Numbers	4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.
Lesson 2-5: Subtract Whole Numbers	4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.
Lesson 2-6: Subtract Greater Numbers	4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.
Lesson 2-7: Subtract Across Zeros	4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.
Lesson 2-8: Problem Solving: Reasoning	4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.
Topic 3: Use Strategies and Properties to Multiply by 1-Digit Numbers	
Lesson 3-1: Multiply by Multiples of 10, 100, and 1,000	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 3-2: Estimate Products	4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 3-3: Use Arrays and Partial Products to Multiply	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 3-4: Use Area Models and Partial Products to Multiply	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 3-5: More Use Area Models and Partial Products to Multiply	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.
Lesson 3-6: Mental Math Strategies for Multiplication	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 3-7: Choose a Strategy to Multiply	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.
Lesson 3-8: Problem Solving: Model with Math	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.
Topic 4 Use Strategies and Properties to Multiply by 2-Digit Numbers	
Lesson 4-1: Multiply Multiples of 10	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 4-2: Use Models to Multiply 2-Digit Numbers by Multiples of 10	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 4-3: Estimate: Use Rounding or Compatible Numbers	4.RA.A.2 Solve multi-step whole number. 4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 4-4: Arrays and Partial Products	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.RA.A.2 Solve multi-step whole number.
Lesson 4-5: Area Models and Partial Products	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 4-6: Use Partial Products to Multiply by 2-Digit Numbers	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.RA.A.2 Solve multi-step whole number.
Lesson 4-7: Problem Solving: Make Sense and Persevere	4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.GM.C.8, Apply the area and perimeter formulas for rectangles to solve problems.
Topic 5: Use Strategies and Properties to Divide by 1-Digit Numbers	
Lesson 5-1: Mental Math: Find Quotients	4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.
Lesson 5-2: Mental Math: Estimate Quotients	4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution. 4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.
Lesson 5-3: Mental Math: Estimate Quotients for Greater Dividends	4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution. 4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

<p align="center">enVision Mathematics, ©2020 Grade 4 Lessons</p>	<p align="center">Missouri Learning Standards for Mathematics Grade 4</p>
<p>Lesson 5-4: Interpret Remainders</p>	<p>4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution. 4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>
<p>Lesson 5-5: Use Partial Quotients to Divide</p>	<p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>
<p>Lesson 5-6: Use Partial Quotients to Divide: Greater Dividends</p>	<p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>
<p>Lesson 5-7: Use Sharing to Divide</p>	<p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p>
<p>Lesson 5-8: Continue Sharing to Divide</p>	<p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p>
<p>Lesson 5-9: Choose a Strategy to Divide</p>	<p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 5-10: Problem Solving: Model with Math	<p>4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.</p> <p>4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p> <p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>
Topic 6: Use Operations with Whole Numbers to Solve Problems	
Lesson 6-1: Solve Comparison Problems	<p>4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p>
Lesson 6-2: Continue to Solve Comparison Problems	<p>4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p> <p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>
Lesson 6-3: Model Multi-Step Problems	<p>4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.</p> <p>4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p> <p>4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.</p> <p>4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p> <p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>
Lesson 6-4: More Model Multi-Step Problems	<p>4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.</p>

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
	<p>4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p> <p>4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.</p> <p>4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p> <p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>
Lesson 6-5: Solve Multi Step Problems	<p>4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.</p> <p>4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p> <p>4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.</p> <p>4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p> <p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>
Lesson 6-6: Problem Solving: Make Sense and Persevere	<p>4.RA.A.1 Multiply or divide to solve problems involving a multiplicative comparison.</p> <p>4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.</p> <p>4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p> <p>4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.</p>

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Topic 7: Factors and Multiples	
Lesson 7-1: Understand Factors	<p>4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number.</p> <p>4.RA.B.5 Determine if a whole number within 100 is composite or prime, and find all factor pairs for whole numbers within 100.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p>
Lesson 7-2 Factors	<p>4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number.</p> <p>4.RA.B.5 Determine if a whole number within 100 is composite or prime, and find all factor pairs for whole numbers within 100.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p>
Lesson 7-3: Problem Solving: Repeated Reasoning	<p>4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number.</p> <p>4.RA.B.5 Determine if a whole number within 100 is composite or prime, and find all factor pairs for whole numbers within 100.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p>
Lesson 7-4 Prime and Composite Numbers	<p>4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number.</p> <p>4.RA.B.5 Determine if a whole number within 100 is composite or prime, and find all factor pairs for whole numbers within 100.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p>
Lesson 7-5 Multiples	<p>4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number.</p> <p>4.RA.B.5 Determine if a whole number within 100 is composite or prime, and find all factor pairs for whole numbers within 100.</p> <p>4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.</p>

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Topic 8: Extend Understanding of Fraction Equivalence and Ordering	
Lesson 8-1: Equivalent Fractions: Area Models	4.NF.A.1 Explain and/or illustrate why two fractions are equivalent. 4.NF.A.2 Recognize and generate equivalent fractions.
Lesson 8-2: Equivalent Fractions: Number Lines	4.NF.A.1 Explain and/or illustrate why two fractions are equivalent. 4.NF.A.2 Recognize and generate equivalent fractions.
Lesson 8-3: Generate Equivalent Fractions: Multiplication	4.NF.A.1 Explain and/or illustrate why two fractions are equivalent. 4.NF.A.2 Recognize and generate equivalent fractions 4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 8-4: Generate Equivalent Fractions: Division	4.NF.A.1 Explain and/or illustrate why two fractions are equivalent. 4.NF.A.2 Recognize and generate equivalent fractions 4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number. 4.NBT.A.7 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, and justify the solution.
Lesson 8-5: Use Benchmarks to Compare Fractions	4.NF.A.3 Compare two fractions using the symbols $>$, $=$ or $<$, and justify the solution.
Lesson 8-6: Compare Fractions	4.NF.A.3 Compare two fractions using the symbols $>$, $=$ or $<$, and justify the solution. 4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution. 4.NF.A.1 Explain and/or illustrate why two fractions are equivalent. 4.NF.A.2 Recognize and generate equivalent fractions
Lesson 8-7: Problem Solving: Construct Arguments	4.NF.A.1 Explain and/or illustrate why two fractions are equivalent. 4.NF.A.2 Recognize and generate equivalent fractions 4.NF.A.3 Compare two fractions using the symbols $>$, $=$ or $<$, and justify the solution.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Topic 9: Understand Addition and Subtraction of Fractions	
Lesson 9-1: Model Addition of Fractions	4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Lesson 9-2: Decompose Fractions	4.NF.B.5 Decompose a fraction into a sum of fractions with the same denominator and record each decomposition with an equation and justification.
Lesson 9-3: Add Fractions with Like Denominators	4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Lesson 9-4: Model Subtraction of Fractions	4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Lesson 9-5: Subtract Fractions with Like Denominators	4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Lesson 9-6: Add and Subtract Fractions with Like Denominators	4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 9-7: Model Addition and Subtraction of Mixed Numbers	4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators. 4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole.
Lesson 9-8: Add Mixed Numbers	4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators. 4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole.
Lesson 9-9: Subtract Mixed Numbers	4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators. 4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole.
Lesson 9-10: Problem Solving: Model with Math	4.NF.B.4 Understand addition and subtraction of fractions as joining/composing and separating/decomposing parts referring to the same whole. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Topic 10: Extend Multiplication Concepts to Fractions	
Lesson 10-1: Fractions as Multiples of Unit Fractions	4.NF.B.8 Solve problems involving multiplication of a fraction by a whole number.
Lesson 10-2: Multiply a Fraction by a Whole Number: Use Models	4.NF.B.7 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number. 4.NF.B.8 Solve problems involving multiplication of a fraction by a whole number.
Lesson 10-3: Multiply a Fraction by a Whole Number: Use Symbols	4.NF.B.7 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number. 4.NF.B.8 Solve problems involving multiplication of a fraction by a whole number.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 10-4: Solve Time Problems	4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators. 4.GM.C.6 Know relative sizes of measurement units within one system of units. 4.GM.C.6a Convert measurements in a larger unit in terms of a smaller unit.
Lesson 10-5: Problem Solving: Model with Math	4.NF.B.8 Solve problems involving multiplication of a fraction by a whole number. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money. 4.NF.B.7 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.
Topic 11: Represent and Interpret Data on Line Plots	
Lesson 11-1: Read Line Plots	4.DS.A.1 Create a frequency table and/or line plot to display measurement data. 4.DS.A.2 Solve problems involving addition and subtraction by using information presented in a data display. 4.DS.A.3 Analyze the data in a frequency table, line plot, bar graph or picture graph. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Lesson 11-2: Make Line Plots	4.DS.A.1 Create a frequency table and/or line plot to display measurement data. 4.DS.A.2 Solve problems involving addition and subtraction by using information presented in a data display. 4.NF.A.1 Explain and/or illustrate why two fractions are equivalent. 4.NF.A.2 Recognize and generate equivalent fractions. 4.NF.A.3 Compare two fractions using the symbols $>$, $=$ or $<$, and justify the solution. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 11-3: Use Line Plots to Solve Problems	4.DS.A.1 Create a frequency table and/or line plot to display measurement data. 4.DS.A.2 Solve problems involving addition and subtraction by using information presented in a data display. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Lesson 11-4: Problem Solving: Critique Reasoning	4.DS.A.1 Create a frequency table and/or line plot to display measurement data. 4.DS.A.2 Solve problems involving addition and subtraction by using information presented in a data display. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Topic 12: Understand and Compare Decimals	
Lesson 12-1: Fractions and Decimals	4.NF.C.9 Use decimal notation for fractions with denominators of 10 or 100. 4.NF.C.11 Read, write and identify decimals to the hundredths place using number names, base ten numerals and expanded form.
Lesson 12-2: Fractions and Decimals on the Number Line	4.NF.C.9 Use decimal notation for fractions with denominators of 10 or 100. 4.NF.C.11 Read, write and identify decimals to the hundredths place using number names, base ten numerals and expanded form. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money.
Lesson 12-3: Compare Decimals	4.NF.C.12 Compare two decimals to the hundredths place using the symbols $>$, $=$ or $<$, and justify the solution. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money.
Lesson 12-4: Add Fractions with Denominators of 10 and 100	4.NF.C.10 Understand that fractions and decimals are equivalent representations of the same quantity.
Lesson 12-5: Solve Word Problems Involving Money	4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 12-6: Problem Solving: Look For and Use Structure	4.NF.C.12 Compare two decimals to the hundredths place using the symbols $>$, $=$ or $<$, and justify the solution. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money.
Topic 13: Measurement: Find Equivalence in Units of Measure	
Lesson 13-1: Equivalence with Customary Units of Length	4.GM.C.6 Know relative sizes of measurement units within one system of units. 4.GM.C.6a Convert measurements in a larger unit in terms of a smaller unit. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Lesson 13-2: Equivalence with Customary Units of Capacity	4.GM.C.6 Know relative sizes of measurement units within one system of units. 4.GM.C.6a Convert measurements in a larger unit in terms of a smaller unit. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.
Lesson 13-3: Equivalence with Customary Units of Weight	4.GM.C.6 Know relative sizes of measurement units within one system of units. 4.GM.C.6a Convert measurements in a larger unit in terms of a smaller unit. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

<p align="center">enVision Mathematics, ©2020 Grade 4 Lessons</p>	<p align="center">Missouri Learning Standards for Mathematics Grade 4</p>
<p>Lesson 13-4: Equivalence with Metric Units of Length</p>	<p>4.GM.C.6 Know relative sizes of measurement units within one system of units. 4.GM.C.6a Convert measurements in a larger unit in terms of a smaller unit. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.NF.B.6 Solve problems involving adding and subtracting fractions and mixed numbers with like denominators. 4.NF.B.8 Solve problems involving multiplication of a fraction by a whole number.</p>
<p>Lesson 13-5: Equivalence with Metric Units of Capacity and Mass</p>	<p>4.GM.C.6 Know relative sizes of measurement units within one system of units. 4.GM.C.6a Convert measurements in a larger unit in terms of a smaller unit. 4.GM.C.7 Use the four operations to solve problems involving distances, intervals of time, liquid volume, weight of objects and money. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.</p>
<p>Lesson 13-6: Solve Perimeter and Area Problems</p>	<p>4.GM.C.8 Apply the area and perimeter formulas for rectangles to solve problems. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p>
<p>Lesson 13-7: Problem Solving: Precision</p>	<p>4.GM.C.8 Apply the area and perimeter formulas for rectangles to solve problems. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.RA.A.3 Solve whole number division problems involving variables in which remainders need to be interpreted, and justify the solution.</p>

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Topic 14: Algebra: Generate and Analyze Patterns	
Lesson 14-1: Number Sequences	4.RA.C.6 Generate a number pattern that follows a given rule. 4.RA.C.7 Use words or mathematical symbols to express a rule for a given pattern. 4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers. 4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number.
Lesson 14-2: Patterns: Number Rules	4.RA.C.6 Generate a number pattern that follows a given rule. 4.RA.B.4 Recognize that a whole number is a multiple of each of its factors and find the multiples for a given whole number. 4.NBT.A.6 Multiply a whole number of up to four digits by a one-digit whole number and multiply two two-digit numbers, and justify the solution.
Lesson 14-3: Patterns: Repeating Shapes	4.RA.C.6 Generate a number pattern that follows a given rule. 4.RA.C.7 Use words or mathematical symbols to express a rule for a given pattern. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer.
Lesson 14-4: Problem Solving: Look For and Use Structure	4.RA.C.6 Generate a number pattern that follows a given rule. 4.RA.C.7 Use words or mathematical symbols to express a rule for a given pattern.
Topic 15: Geometric Measurement: Understand Concepts of Angles and Angle Measurement	
Lesson 15-1: Lines, Rays, and Angles	4.GM.A.1 Draw and identify points, lines, line segments, rays, angles, perpendicular lines and parallel lines. 4.GM.B.4 Identify and estimate angles and their measure.
Lesson 15-2: Understand Angles and Unit Angles	4.GM.B.4 Identify and estimate angles and their measure. 4.NF.A.1 Explain and/or illustrate why two fractions are equivalent. 4.NF.A.2 Recognize and generate equivalent fractions. 4.NF.B.5 Decompose a fraction into a sum of fractions with the same denominator and record each decomposition with an equation and justification.

**A Correlation of Missouri Learning Standards for Mathematics 2016
To the Lessons of enVision Mathematics, ©2020**

enVision Mathematics, ©2020 Grade 4 Lessons	Missouri Learning Standards for Mathematics Grade 4
Lesson 15-3: Measure with Unit Angles	4.GM.B.4 Identify and estimate angles and their measure.
Lesson 15-4: Measure and Draw Angles	4.GM.B.5 Draw and measure angles in whole-number degrees using a protractor.
Lesson 15-5: Add and Subtract Angle Measures	4.GM.B.4 Identify and estimate angles and their measure. 4.GM.B.5 Draw and measure angles in whole-number degrees using a protractor. 4.NBT.A.5 Demonstrate fluency with addition and subtraction of whole numbers.
Lesson 15-6: Problem Solving: Use Appropriate Tools	4.GM.B.5 Draw and measure angles in whole-number degrees using a protractor. 4.RA.A.2 Solve multi-step whole number problems involving the four operations and variables and using estimation to interpret the reasonableness of the answer. 4.GM.B.4 Identify and estimate angles and their measure.
Topic 16: Lines, Angles, and Shapes	
Lesson 16-1: Lines	4.GM.A.1 Draw and identify points, lines, line segments, rays, angles, perpendicular lines and parallel lines.
Lesson 16-2: Classify Triangles	4.GM.A.2 Classify two-dimensional shapes by their sides and/or angles. 4.GM.B.4 Identify and estimate angles and their measure. 4.GM.A.1 Draw and identify points, lines, line segments, rays, angles, perpendicular lines and parallel lines.
Lesson 16-3: Classify Quadrilaterals	4.GM.A.2 Classify two-dimensional shapes by their sides and/or angles. 4.GM.A.1 Draw and identify points, lines, line segments, rays, angles, perpendicular lines and parallel lines.
Lesson 16-4: Line Symmetry	4.GM.A.3 Construct lines of symmetry for a two-dimensional figure.
Lesson 16-5: Draw Shapes with Line Symmetry	4.GM.A.3 Construct lines of symmetry for a two-dimensional figure.
Lesson 16-6: Problem Solving: Critique Reasoning	4.GM.A.2 Classify two-dimensional shapes by their sides and/or angles. 4.GM.A.1 Draw and identify points, lines, line segments, rays, angles, perpendicular lines and parallel lines.

©2021 Savvas Learning Co, LLC.