

A Correlation of

**Missouri Learning Standards for
Mathematics 2016, Grade 3**



To the

enVision® Mathematics

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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.

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Topic 1: Understand Multiplication and Division of Whole Numbers	
Lesson 1-1: Relate Multiplication and Addition	3.RA.A.1 Interpret products of whole numbers. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems.
Lesson 1-2: Multiplication on the Number Line	3.RA.A.1 Interpret products of whole numbers. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems.
Lesson 1-3: Arrays and Properties	3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.A.1 Interpret products of whole numbers. 3.RA.B.6 Apply properties of operations as strategies to multiply and divide.
Lesson 1-4: Division: How Many in Each Group?	3.RA.A.2 Interpret quotients of whole numbers. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems.
Lesson 1-5: Division: How Many Equal Groups?	3.RA.A.2 Interpret quotients of whole numbers. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems.
Lesson 1-6: Problem Solving: Use Appropriate Tools	3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.A.1 Interpret products of whole numbers. 3.RA.A.2 Interpret quotients of whole numbers.

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Topic 2: Multiplication Facts: Use Patterns	
Lesson 2-1: 2 and 5 as Factors	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p> <p>3.RA.A.4 Use multiplication and division within 100 to solve problems.</p> <p>3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.</p> <p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p>
Lesson 2-2: 9 as a Factor	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p> <p>3.RA.A.4 Use multiplication and division within 100 to solve problems.</p> <p>3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.</p> <p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p>
Lesson 2-3: Apply Properties: Multiply by 0 and 1	<p>3.RA.B.6 Apply properties of operations as strategies to multiply and divide.</p> <p>3.RA.A.1 Interpret products of whole numbers.</p> <p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p> <p>3.RA.A.4 Use multiplication and division within 100 to solve problems.</p> <p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p> <p>3.RA.C.8 Demonstrate fluency with products within 100.</p>
Lesson 2-4: Multiply by 10	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p> <p>3.RA.A.4 Use multiplication and division within 100 to solve problems.</p> <p>3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.</p> <p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p>

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Lesson 2-5: Multiplication Facts: 0, 1, 2, 5, 9, and 10	3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.
Lesson 2-6: Problem Solving: Model with Math	3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.
Topic 3: Apply Properties: Multiplication Facts for 3, 4, 6, 7, 8	
Lesson 3-1: The Distributive Property	3.RA.B.6 Apply properties of operations as strategies to multiply and divide. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.
Lesson 3-2: Apply Properties: 3 and 4 as Factors	3.RA.B.6 Apply properties of operations as strategies to multiply and divide. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.

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<p>Lesson 3-3: Apply Properties: 6 and 7 as Factors</p>	<p>3.RA.B.6 Apply properties of operations as strategies to multiply and divide. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.</p>
<p>Lesson 3-4: Apply Properties: 8 as a Factor</p>	<p>3.RA.B.6 Apply properties of operations as strategies to multiply and divide. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.</p>
<p>Lesson 3-5: Practice Multiplication Facts</p>	<p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.B.6 Apply properties of operations as strategies to multiply and divide.</p>
<p>Lesson 3-6: The Associative Property: Multiply with 3 Factors</p>	<p>3.RA.B.6 Apply properties of operations as strategies to multiply and divide.</p>

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	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 3-7: Problem Solving: Repeated Reasoning</p>	<p>3.RA.B.6 Apply properties of operations as strategies to multiply and divide. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Topic 4: Use Multiplication to Divide: Division Facts</p>	
<p>Lesson 4-1: Relate Multiplication and Division</p>	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 4-2: Use Multiplication to Divide with 2, 3, 4, and 5</p>	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 4-3: Use Multiplication to Divide with 6 and 7</p>	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p>

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	<p>3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 4-4: Use Multiplication to Divide with 8 and 9</p>	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 4-5: Multiplication Patterns: Even and Odd Numbers</p>	<p>3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 4-6: Division Involving 0 and 1</p>	<p>3.RA.B.6 Apply properties of operations as strategies to multiply and divide.</p>

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	<p>problem that illustrates a multiplication or division situation. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 4-7: Practice Multiplication and Division Facts</p>	<p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.A.5 Determine the unknown number in a multiplication or division equation relating three whole numbers.</p>
<p>Lesson 4-8: Solve Multiplication and Division Equations</p>	<p>3.RA.A.5 Determine the unknown number in a multiplication or division equation relating three whole numbers. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 4-9: Problem Solving: Make Sense and Persevere</p>	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p>

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	<p>3.RA.A.4 Use multiplication and division within 100 to solve problems.</p> <p>3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.</p>
Topic 5: Fluently Multiply and Divide within 100	
Lesson 5-1: Patterns for Multiplication Facts	<p>3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.</p> <p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p> <p>3.RA.C.8 Demonstrate fluency with products within 100.</p>
Lesson 5-2: Use a Table to Multiply and Divide	<p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p> <p>3.RA.C.8 Demonstrate fluency with products within 100.</p>
Lesson 5-3: Use Strategies to Multiply	<p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p> <p>3.RA.C.8 Demonstrate fluency with products within 100.</p> <p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p> <p>3.RA.A.4 Use multiplication and division within 100 to solve problems.</p>
Lesson 5-4: Solve Word Problems: Multiplication and Division Facts	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p> <p>3.RA.A.4 Use multiplication and division within 100 to solve problems.</p> <p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p> <p>3.RA.C.8 Demonstrate fluency with products within 100.</p>
Lesson 5-5: Write Multiplication and Division Math Stories	<p>3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation.</p>

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	<p>3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.A.1 Interpret products of whole numbers. 3.RA.A.2 Interpret quotients of whole numbers. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 5-6: Problem Solving: Look For and Use Structure</p>	<p>3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Topic 6: Connect Area to Multiplication and Addition</p>	
<p>Lesson 6-1: Cover Regions</p>	<p>3.GM.C.9 Calculate area by using unit squares to cover a plane figure with no gaps or overlaps.</p>
<p>Lesson 6-2: Area: Nonstandard Units</p>	<p>3.GM.C.9 Calculate area by using unit squares to cover a plane figure with no gaps or overlaps.</p>
<p>Lesson 6-3: Area: Standard Units</p>	<p>3.GM.C.9 Calculate area by using unit squares to cover a plane figure with no gaps or overlaps. 3.GM.C.10 Label area measurements with squared units.</p>

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<p>Lesson 6-4: Area of Squares and Rectangles</p>	<p>3.GM.C.11 Demonstrate that tiling a rectangle to find the area and multiplying the side lengths result in the same value. 3.RA.A.5 Determine the unknown number in a multiplication or division equation relating three whole numbers. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.GM.C.12 Multiply whole-number side lengths to solve problems involving the area of rectangles.</p>
<p>Lesson 6-5: Apply Properties: Area and the Distributive Property</p>	<p>3.GM.C.11 Demonstrate that tiling a rectangle to find the area and multiplying the side lengths result in the same value. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 6-6: Apply Properties: Area of Irregular Shapes</p>	<p>3.GM.C.14 Decompose a rectangle into smaller rectangles to find the area of the original rectangle. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 6-7: Problem Solving: Look For and Use Structure</p>	<p>3.GM.C.12 Multiply whole-number side lengths to solve problems involving the area of rectangles. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.GM.C.11 Demonstrate that tiling a rectangle to find the area and multiplying the side lengths result in the same value. 3.GM.C.14 Decompose a rectangle into smaller rectangles to find the area of the original rectangle.</p>

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<p>Topic 7: Represent and Interpret Data</p>	
<p>Lesson 7-1: Read Picture Graphs and Bar Graphs</p>	<p>3.DS.A.1 Create frequency tables, scaled picture graphs and bar graphs to represent a data set with several categories. 3.DS.A.2 Solve one- and two-step problems using information presented in bar and/or picture graphs. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.</p>
<p>Lesson 7-2: Make Picture Graphs</p>	<p>3.DS.A.1 Create frequency tables, scaled picture graphs and bar graphs to represent a data set with several categories. 3.DS.A.2 Solve one- and two-step problems using information presented in bar and/or picture graphs. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems.</p>
<p>Lesson 7-3: Make Bar Graphs</p>	<p>3.DS.A.1 Create frequency tables, scaled picture graphs and bar graphs to represent a data set with several categories. 3.DS.A.2 Solve one- and two-step problems using information presented in bar and/or picture graphs. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems.</p>
<p>Lesson 7-4: Solve Word Problems Using Information in Graphs</p>	<p>3.DS.A.1 Create frequency tables, scaled picture graphs and bar graphs to represent a data set with several categories. 3.DS.A.2 Solve one- and two-step problems using information presented in bar and/or picture graphs. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.</p>

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Lesson 7-5: Problem Solving: Precision	3.DS.A.1 Create frequency tables, scaled picture graphs and bar graphs to represent a data set with several categories. 3.DS.A.2 Solve one- and two-step problems using information presented in bar and/or picture graphs. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems.
Topic 8: Use Strategies and Properties to Add and Subtract	
Lesson 8-1: Addition Properties	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Lesson 8-2: Algebra: Addition Patterns	3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.
Lesson 8-3: Mental Math: Addition	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Lesson 8-4: Mental Math: Subtraction	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Lesson 8-5: Round Whole Numbers	3.NBT.A.1 Round whole numbers to the nearest 10 or 100. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Lesson 8-6: Estimate Sums	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.NBT.A.1 Round whole numbers to the nearest 10 or 100. 3.GM.B.8 Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units.

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Lesson 8-7: Estimate Differences	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations. 3.RA.D.10 Interpret the reasonableness of answers using mental computation and estimation strategies including rounding.
Lesson 8-8: Problem Solving: Model with Math	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Topic 9: Fluently Add and Subtract within 1,000	
Lesson 9-1: Use Partial Sums to Add	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Lesson 9-2: Use Regrouping to Add	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations. 3.NBT.A.2 Read, write and identify whole numbers within 100,000 using base ten numerals, number names and expanded form.
Lesson 9-3: Add 3 or More Numbers	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations. 3.NBT.A.2 Read, write and identify whole numbers within 100,000 using base ten numerals, number names and expanded form.
Lesson 9-4: Use Partial Differences to Subtract	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations. 3.NBT.A.2 Read, write and identify whole numbers within 100,000 using base ten numerals, number names and expanded form.
Lesson 9-5: Use Regrouping to Subtract	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations. 3.NBT.A.2 Read, write and identify whole numbers within 100,000 using base ten numerals, number names and expanded form.
Lesson 9-6: Use Strategies to Add and Subtract	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000.

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	3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Lesson 9-7: Problem Solving: Construct Arguments	3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Topic 10: Multiply by Multiples of 10	
Lesson 10-1: Use Patterns to Multiply	3.NBT.A.4 Multiply whole numbers by multiples of 10 in the range 10-90. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.
Lesson 10-2: Use Mental Math to Multiply	3.NBT.A.4 Multiply whole numbers by multiples of 10 in the range 10-90. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems.
Lesson 10-3: Use Properties to Multiply	3.NBT.A.4 Multiply whole numbers by multiples of 10 in the range 10-90. 3.RA.B.6 Apply properties of operations as strategies to multiply and divide.
Lesson 10-4: Problem Solving: Look For and Use Structure	3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.E.11 Identify arithmetic patterns and explain the patterns using properties of operations.
Topic 11: Use Operations with Whole Numbers to Solve Problems	
Lesson 11-1: Solve 2-Step Word Problems: Addition and Subtraction	3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations. 3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000.
Lesson 11-2: Solve 2-Step Word Problems: Multiplication and Division	3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.RA.D.10 Interpret the reasonableness of answers using mental computation and estimation strategies including rounding.
Lesson 11-3: Solve 2-Step Word Problems: All Operations	3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.

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	<p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p> <p>3.RA.C.8 Demonstrate fluency with products within 100.</p> <p>3.RA.D.10 Interpret the reasonableness of answers using mental computation and estimation strategies including rounding.</p>
Lesson 11-4: Problem Solving: Critique Reasoning	<p>3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.</p> <p>3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers.</p> <p>3.RA.C.8 Demonstrate fluency with products within 100.</p> <p>3.RA.D.10 Interpret the reasonableness of answers using mental computation and estimation strategies including rounding.</p>
Topic 12: Understand Fractions as Numbers	
Lesson 12-1: Partition Regions into Equal Parts	<p>3.GM.A.1 Understand that shapes in different categories may share attributes and that the shared attributes can define a larger category.</p> <p>3.NF.A.1 Understand a unit fraction as the quantity formed by one part when a whole is partitioned into equal parts.</p>
Lesson 12-2: Fractions and Regions	<p>3.NF.A.1 Understand a unit fraction as the quantity formed by one part when a whole is partitioned into equal parts.</p> <p>3.GM.A.1 Understand that shapes in different categories may share attributes and that the shared attributes can define a larger category.</p>
Lesson 12-3: Understand the Whole	<p>3.NF.A.7 Explain why fraction comparisons are only valid when the two fractions refer to the same whole.</p> <p>3.NF.A.1 Understand a unit fraction as the quantity formed by one part when a whole is partitioned into equal parts.</p>
Lesson 12-4: Number Line: Fractions Less Than 1	<p>3.NF.A.3 Represent fractions on a number line.</p> <p>3.NF.A.3a Understand the whole is the interval from 0 to 1.</p>

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	<p>3.NF.A.3b Understand the whole is partitioned into equal parts.</p> <p>3.NF.A.3c Understand a fraction represents the endpoint of the length a given number of partitions from 0.</p>
Lesson 12-5: Number Line: Fractions Greater Than 1	<p>3.NF.A.3 Represent fractions on a number line.</p> <p>3.NF.A.3a Understand the whole is the interval from 0 to 1.</p> <p>3.NF.A.3b Understand the whole is partitioned into equal parts.</p> <p>3.NF.A.3c Understand a fraction represents the endpoint of the length a given number of partitions from 0.</p>
Lesson 12-6: Line Plots and Length	<p>3.DS.A.3 Create a line plot to represent data.</p> <p>3.NF.A.3 Represent fractions on a number line.</p> <p>3.NF.A.3a Understand the whole is the interval from 0 to 1.</p> <p>3.NF.A.3b Understand the whole is partitioned into equal parts.</p> <p>3.NF.A.3c Understand a fraction represents the endpoint of the length a given number of partitions from 0.</p>
Lesson 12-7: More Line Plots and Length	<p>3.DS.A.3 Create a line plot to represent data.</p> <p>3.NF.A.3 Represent fractions on a number line.</p> <p>3.NF.A.3a Understand the whole is the interval from 0 to 1.</p> <p>3.NF.A.3b Understand the whole is partitioned into equal parts.</p> <p>3.NF.A.3c Understand a fraction represents the endpoint of the length a given number of partitions from 0</p>
Lesson 12-8: Problem Solving: Make Sense and Persevere	<p>3.NF.A.1 Understand a unit fraction as the quantity formed by one part when a whole is partitioned into equal parts.</p>
Topic 13: Fraction Equivalence and Comparison	
Lesson 13-1: Equivalent Fractions: Use Models	<p>3.NF.A.5 Recognize and generate equivalent fractions using visual models, and justify why the fractions are equivalent.</p>

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	3.NF.A.4 Demonstrate that two fractions are equivalent if they are the same size or the same point on a number line.
Lesson 13-2: Equivalent Fractions: Use the Number Line	3.NF.A.4 Demonstrate that two fractions are equivalent if they are the same size, or the same point on a number line. 3.NF.A.5 Recognize and generate equivalent fractions using visual models, and justify why the fractions are equivalent.
Lesson 13-3: Use Models to Compare Fractions: Same Denominator	3.NF.A.6 Compare two fractions with the same numerator or denominator using the symbols $>$, $=$ or $<$, and justify the solution.
Lesson 13-4: Use Models to Compare Fractions: Same Numerator	3.NF.A.6 Compare two fractions with the same numerator or denominator using the symbols $>$, $=$ or $<$, and justify the solution.
Lesson 13-5: Compare Fractions: Use Benchmarks	3.NF.A.6 Compare two fractions with the same numerator or denominator using the symbols $>$, $=$ or $<$, and justify the solution.
Lesson 13-6: Compare Fractions: Use the Number Line	3.NF.A.4 Demonstrate that two fractions are equivalent if they are the same size, or the same point on a number line.
Lesson 13-7: Whole Numbers and Fractions	3.NF.A.7 Explain why fraction comparisons are only valid when the two fractions refer to the same whole. 3.NF.A.4 Demonstrate that two fractions are equivalent if they are the same size, or the same point on a number line.
Lesson 13-8: Problem Solving: Construct Arguments	3.NF.A.6 Compare two fractions with the same numerator or denominator using the symbols $>$, $=$ or $<$, and justify the solution. 3.NF.A.5 Recognize and generate equivalent fractions using visual models, and justify why the fractions are equivalent.
Topic 14: Solve Time, Capacity, and Mass Problems	
Lesson 14-1: Time to the Minute	3.GM.B.4 Tell and write time to the nearest minute. 3.GM.B.6 Solve problems involving addition and subtraction of minutes.

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<p>Lesson 14-2: Units of Time: Measure Elapsed Time</p>	<p>3.GM.B.4 Tell and write time to the nearest minute. 3.GM.B.6 Solve problems involving addition and subtraction of minutes. 3.GM.B.5 Estimate time intervals in minutes.</p>
<p>Lesson 14-3: Units of Time: Solve Word Problems</p>	<p>3.GM.B.4 Tell and write time to the nearest minute. 3.GM.B.6 Solve problems involving addition and subtraction of minutes. 3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000.</p>
<p>Lesson 14-4: Estimate Liquid Volume</p>	<p>3.GM.B.7 Measure or estimate length, liquid volume and weight of objects. 3.GM.B.8 Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units.</p>
<p>Lesson 14-5: Measure Liquid Volume</p>	<p>3.GM.B.7 Measure or estimate length, liquid volume and weight of objects. 3.GM.B.8 Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units.</p>
<p>Lesson 14-6: Estimate Mass</p>	<p>3.GM.B.7 Measure or estimate length, liquid volume and weight of objects. 3.GM.B.8 Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units.</p>
<p>Lesson 14-7: Measure Mass</p>	<p>3.GM.B.7 Measure or estimate length, liquid volume and weight of objects. 3.GM.B.8 Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units.</p>
<p>Lesson 14-8: Solve Word Problems Involving Mass and Liquid Volume</p>	<p>3.GM.B.7 Measure or estimate length, liquid volume and weight of objects. 3.GM.B.8 Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units.</p>

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	3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.
Lesson 14-9: Problem Solving: Reasoning	3.GM.B.7 Measure or estimate length, liquid volume and weight of objects. 3.GM.B.8 Use the four operations to solve problems involving lengths, liquid volumes or weights given in the same units.
Topic 15: Attributes of Two-Dimensional Shapes	
Lesson 15-1: Describe Quadrilaterals	3.GM.A.1 Understand that shapes in different categories may share attributes and that the shared attributes can define a larger category. 3.GM.A.2 Distinguish rhombuses and rectangles as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to these subcategories. 3.GM.A.3 Partition shapes into parts with equal areas, and express the area of each part as a unit fraction of the whole. 3.NF.A.1 Understand a unit fraction as the quantity formed by one part when a whole is partitioned into equal parts.
Lesson 15-2: Classify Shapes	3.GM.A.1 Understand that shapes in different categories may share attributes and that the shared attributes can define a larger category. 3.GM.A.2 Distinguish rhombuses and rectangles as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to these subcategories. 3.GM.A.3 Partition shapes into parts with equal areas, and express the area of each part as a unit fraction of the whole. 3.NF.A.1 Understand a unit fraction as the quantity formed by one part when a whole is partitioned into equal parts.
Lesson 15-3: Analyze and Compare Quadrilaterals	3.GM.A.1 Understand that shapes in different categories may share attributes and that the shared attributes can define a larger category. 3.GM.A.2 Distinguish rhombuses and rectangles as examples of quadrilaterals, and draw examples of

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	<p>quadrilaterals that do not belong to these subcategories. 3.GM.C.9 Calculate area by using unit squares to cover a plane figure with no gaps or overlaps.</p>
<p>Lesson 15-4: Problem Solving: Precision</p>	<p>3.GM.A.1 Understand that shapes in different categories may share attributes and that the shared attributes can define a larger category. 3.GM.A.2 Distinguish rhombuses and rectangles as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to these subcategories. 3.GM.C.12 Multiply whole-number side lengths to solve problems involving the area of rectangles.</p>
<p>Topic 16: Solve Perimeter Problems</p>	
<p>Lesson 16-1: Understand Perimeter</p>	<p>3.GM.D.15 Solve problems involving perimeters of polygons. 3.GM.D.16 Understand that rectangles can have equal perimeters but different areas, or rectangles can have equal areas but different perimeters.</p>
<p>Lesson 16-2: Perimeter of Common Shapes</p>	<p>3.GM.D.15 Solve problems involving perimeters of polygons. 3.GM.D.16 Understand that rectangles can have equal perimeters but different areas, or rectangles can have equal areas but different perimeters. 3.RA.A.3 Describe in words or drawings a problem that illustrates a multiplication or division situation. 3.RA.A.4 Use multiplication and division within 100 to solve problems. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100.</p>
<p>Lesson 16-3: Perimeter and Unknown Side Lengths</p>	<p>3.GM.D.15 Solve problems involving perimeters of polygons. 3.GM.D.16 Understand that rectangles can have equal perimeters but different areas, or rectangles can have equal areas but different perimeters. 3.RA.D.9 Write and solve two-step problems involving variables using any of the four operations.</p>

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	<p>3.NBT.A.3 Demonstrate fluency with addition and subtraction within 1000.</p>
<p>Lesson 16-4: Same Perimeter, Different Area</p>	<p>3.GM.D.15 Solve problems involving perimeters of polygons. 3.GM.D.16 Understand that rectangles can have equal perimeters but different areas, or rectangles can have equal areas but different perimeters. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.GM.C.11 Demonstrate that tiling a rectangle to find the area and multiplying the side lengths result in the same value. 3.GM.C.12 Multiply whole-number side lengths to solve problems involving the area of rectangles. 3.GM.C.13 Find rectangular arrangements that can be formed for a given area.</p>
<p>Lesson 16-5: Same Area, Different Perimeter</p>	<p>3.GM.D.15 Solve problems involving perimeters of polygons. 3.GM.D.16 Understand that rectangles can have equal perimeters but different areas, or rectangles can have equal areas but different perimeters. 3.RA.C.7 Multiply and divide with numbers and results within 100 using strategies such as the relationship between multiplication and division or properties of operations. Know all products of two one-digit numbers. 3.RA.C.8 Demonstrate fluency with products within 100. 3.GM.C.11 Demonstrate that tiling a rectangle to find the area and multiplying the side lengths result in the same value. 3.GM.C.12 Multiply whole-number side lengths to solve problems involving the area of rectangles. 3.GM.C.13 Find rectangular arrangements that can be formed for a given area.</p>
<p>Lesson 16-6: Problem Solving: Reasoning</p>	<p>3.GM.D.15 Solve problems involving perimeters of polygons. 3.GM.D.16 Understand that rectangles can have equal perimeters but different areas, or rectangles can have equal areas but different perimeters.</p>

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