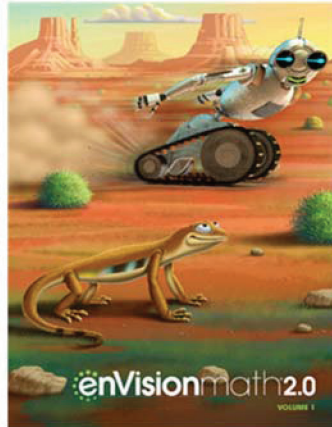


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To the

## Minnesota Academic Standards

### Mathematics – Kindergarten – Grade 5

2007 version



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<b>Number &amp; Operation</b>	
<b>Understand the relationship between quantities and whole numbers up to 31.</b>	
K.1.1.1 Recognize that a number can be used to represent how many objects are in a set or to represent the position of an object in a sequence.	<b>SE/TE: 1-1</b> Count 1, 2, and 3, <b>1-2</b> Recognize 1, 2, and 3 in Different Arrangements, <b>1-3</b> Read and Write 1, 2, and 3, <b>1-4</b> Count 4 and 5, <b>1-5</b> Recognize 4 and 5 in Different Arrangements, <b>1-6</b> Read and Write 4 and 5, <b>1-7</b> Identify the Number 0, <b>1-8</b> Read and Write 0, <b>1-10</b> Count Numbers to 5, <b>1-11</b> Math Practices and Problem Solving: Construct Arguments, <b>2-4</b> Compare Groups to 5 by Counting, <b>3-1</b> Count 6 and 7, <b>3-2</b> Read and Write 6 and 7, <b>3-3</b> Count 8 and 9, <b>3-4</b> Read and Write 8 and 9, <b>3-5</b> Count 10, <b>3-6</b> Read and Write 10, <b>3-8</b> Math Practices and Problem Solving: Look For and Use Structure, <b>5-2</b> Count the Number of Objects in Each Category, <b>5-3</b> Sort the Categories by Counting, <b>5-4</b> Math Practices and Problem Solving: Critique Reasoning, <b>9-1</b> Count and Write 11 and 12, <b>9-2</b> Count and Write 13, 14, and 15, <b>9-3</b> Count and Write 16 and 17, <b>9-4</b> Count and Write 18, 19, and 20, <b>9-6</b> Count to Find How Many, <b>9-7</b> Math Practices and Problem Solving: Reasoning, <b>10-1</b> Make 11, 12, and 13, <b>10-2</b> Make 14, 15, and 16, <b>10-3</b> Make 17, 18, and 19
K.1.1.2 Read, write, and represent whole numbers from 0 to at least 31. Representations may include numerals, pictures, real objects and picture graphs, spoken words, and manipulatives such as connecting cubes.	<b>SE/TE: 1-3</b> Read and Write 1, 2, and 3, <b>1-6</b> Read and Write 4 and 5, <b>1-7</b> Identify the Number 0, <b>1-8</b> Read and Write 0, <b>1-11</b> Math Practices and Problem Solving: Construct Arguments, <b>2-4</b> Compare Groups to 5 by Counting, <b>3-2</b> Read and Write 6 and 7, <b>3-6</b> Read and Write 10, <b>3-8</b> Math Practices and Problem Solving: Look For and Use Structure, <b>6-1</b> Explore Addition, <b>6-2</b> Represent Addition as Adding To, <b>6-3</b> Represent Addition as Putting Together, <b>6-4</b> Use the Plus Sign, <b>6-5</b> Represent and Explain Addition with Equations, <b>6-6</b> Continue to Represent and Explain Addition with Equations, <b>6-7</b> Solve Addition Word Problems: Add To, <b>6-8</b> Solve Addition Word Problems: Put Together, <b>6-9</b> Use Patterns to Develop Fluency in Addition, <b>6-10</b> Math Practices and Problem Solving: Model with Math, <b>7-1</b> Explore Subtraction, <b>7-2</b> Represent Subtraction as Taking Apart, <b>7-3</b> Represent Subtraction as Taking From, <b>7-4</b> Use the Minus Sign, <b>7-5</b> Represent and Explain Subtraction with Equations,

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<p>(Continued) K.1.1.2 Read, write, and represent whole numbers from 0 to at least 31. Representations may include numerals, pictures, real objects and picture graphs, spoken words, and manipulatives such as connecting cubes.</p>	<p><b>7-6</b> Continue to Represent and Explain Subtraction with Equations, <b>7-7</b> Solve Subtraction Word Problems: Take From, <b>7-8</b> Use Patterns to Develop Fluency in Subtraction, <b>7-9</b> Math Practices and Problem Solving: Use Appropriate Tools, <b>8-1</b> Decompose and Represent Numbers to 5, <b>8-2</b> Related Facts, <b>8-3</b> Math Practices and Problem Solving: Reasoning, <b>8-4</b> Fluently Add and Subtract to 5, <b>8-5</b> Decompose and Represent Numbers 6 and 7, <b>8-6</b> Decompose and Represent Numbers 8 and 9, <b>8-7</b> Decompose and Represent 10, <b>8-8</b> Solve Word Problems: Both Addends Unknown, <b>8-9</b> Find the Missing Part of 10, <b>8-10</b> Continue to Find the Missing Part of 10, <b>9-1</b> Count and Write 11 and 12, <b>9-2</b> Count and Write 13, 14, and 15, <b>9-3</b> Count and Write 16 and 17, <b>9-4</b> Count and Write 18, 19, and 20, <b>10-1</b> Make 11, 12, and 13, <b>10-2</b> Make 14, 15, and 16, <b>10-3</b> Make 17, 18, and 19, <b>10-4</b> Find Parts of 11, 12, and 13, <b>10-5</b> Find Parts of 14, 15, and 16, <b>10-6</b> Find Parts of 17, 18, and 19, <b>10-7</b> Math Practices and Problem Solving: Look For and Use Structure</p>
<p>K.1.1.3 Count, with and without objects, forward and backward to at least 20.</p>	<p><b>SE/TE: 1-1</b> Count 1, 2, and 3, <b>1-3</b> Read and Write 1, 2, and 3, <b>1-4</b> Count 4 and 5, <b>1-6</b> Read and Write 4 and 5, <b>1-10</b> Count Numbers to 5, <b>1-11</b> Math Practices and Problem Solving: Construct Arguments, <b>3-1</b> Count 6 and 7, <b>3-2</b> Read and Write 6 and 7, <b>3-3</b> Count 8 and 9, <b>3-4</b> Read and Write 8 and 9, <b>3-5</b> Count 10, <b>3-6</b> Read and Write 10, <b>4-5</b> Count Numbers to 10, <b>4-6</b> Math Practices and Problem Solving: Repeated Reasoning, <b>9-1</b> Count and Write 11 and 12, <b>9-2</b> Count and Write 13, 14, and 15, <b>9-3</b> Count and Write 16 and 17, <b>9-4</b> Count and Write 18, 19, and 20, <b>9-5</b> Count Forward from Any Number to 20, <b>9-6</b> Count to Find How Many, <b>9-7</b> Math Practices and Problem Solving: Reasoning, <b>10-1</b> Make 11, 12, and 13, <b>10-2</b> Make 14, 15, and 16, <b>10-3</b> Make 17, 18, and 19, <b>11-1</b> Count Using Patterns to 30, <b>11-2</b> Count Using Patterns to 50, <b>11-3</b> Count by Tens to 100, <b>11-4</b> Count by Tens and Ones, <b>11-5</b> Count Forward from Any Number to 100, <b>11-6</b> Count Using Patterns to 100, <b>11-7</b> Math Practices and Problem Solving: Look For and Use Structure <b>MN-2</b> Count Backward</p>

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K.1.1.4 Find a number that is 1 more or 1 less than a given number.	<b>SE/ 4-5</b> Count Numbers to 10, <b>4-6</b> Math Practices and Problem Solving: Repeated Reasoning, <b>9-5</b> Count Forward from Any Number to 20 <b>MN-1</b> One More Than or One Less Than to 20
K.1.1.5 Compare and order whole numbers, with and without objects, from 0 to 20.	<b>SE/TE: 2-1</b> Equal Groups , <b>2-2</b> Greater Than, <b>2-3</b> Less Than, <b>2-4</b> Compare Groups to 5 by Counting, <b>2-5</b> Compare Numbers to 5, <b>2-6</b> Math Practices and Problem Solving: Model with Math, <b>4-1</b> Compare Groups to 10, <b>4-2</b> Compare Numbers Using Numerals to 10, <b>4-3</b> Compare Groups to 10 by Counting, <b>4-4</b> Compare Numbers to 10, <b>4-5</b> Count Numbers to 10, <b>5-3</b> Sort the Categories by Counting, <b>5-4</b> Math Practices and Problem Solving: Critique Reasoning, <b>9-7</b> Math Practices and Problem Solving: Reasoning
<b>Use objects and pictures to represent situations involving combining and separating.</b>	
K.1.2.1 Use objects and draw pictures to find the sums and differences of numbers between 0 and 10.	<b>SE/TE: 1-9</b> Ways to Make 5, <b>3-7</b> Ways to Make 10, <b>3-8</b> Math Practices and Problem Solving: Look For and Use Structure, <b>6-1</b> Explore Addition, <b>6-2</b> Represent Addition as Adding To, <b>6-3</b> Represent Addition as Putting Together, <b>6-4</b> Use the Plus Sign, <b>6-5</b> Represent and Explain Addition with Equations, <b>6-6</b> Continue to Represent and Explain Addition with Equations, <b>6-7</b> Solve Addition Word Problems: Add To, <b>6-8</b> Solve Addition Word Problems: Put Together, <b>6-9</b> Use Patterns to Develop Fluency in Addition, <b>6-10</b> Math Practices and Problem Solving: Model with Math, <b>7-1</b> Explore Subtraction, <b>7-2</b> Represent Subtraction as Taking Apart, <b>7-3</b> Represent Subtraction as Taking From, <b>7-4</b> Use the Minus Sign, <b>7-5</b> Represent and Explain Subtraction with Equations, <b>7-6</b> Continue to Represent and Explain Subtraction with Equations, <b>7-7</b> Solve Subtraction Word Problems: Take From, <b>7-8</b> Use Patterns to Develop Fluency in Subtraction, <b>7-9</b> Math Practices and Problem Solving: Use Appropriate Tools, <b>8-1</b> Decompose and Represent Numbers to 5, <b>8-2</b> Related Facts, <b>8-3</b> Math Practices and Problem Solving: Reasoning, <b>8-4</b> Fluently Add and Subtract to 5, <b>8-5</b> Decompose and Represent Numbers 6 and 7,

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(Continued) K.1.2.1 Use objects and draw pictures to find the sums and differences of numbers between 0 and 10.	<b>8-6</b> Decompose and Represent Numbers 8 and 9, <b>8-7</b> Decompose and Represent 10, <b>8-8</b> Solve Word Problems: Both Addends Unknown, <b>8-9</b> Find the Missing Part of 10, <b>8-10</b> Continue to Find the Missing Part of 10
K.1.2.2 Compose and decompose numbers up to 10 with objects and pictures.	<b>SE/TE: 1-9</b> Ways to Make 5, <b>3-7</b> Ways to Make 1, <b>3-8</b> Math Practices and Problem Solving: Look For and Use Structure, <b>6-8</b> Solve Addition Word Problems: Put Together, <b>6-9</b> Use Patterns to Develop Fluency in Addition, <b>7-2</b> Represent Subtraction as Taking Apart, <b>7-3</b> Represent Subtraction as Taking From, <b>7-8</b> Use Patterns to Develop Fluency in Subtraction, <b>8-1</b> Decompose and Represent Numbers to 5, <b>8-2</b> Related Facts, <b>8-5</b> Decompose and Represent Numbers 6 and 7, <b>8-6</b> Decompose and Represent Numbers 8 and 9, <b>8-7</b> Decompose and Represent 10, <b>8-8</b> Solve Word Problems: Both Addends Unknown, <b>8-9</b> Find the Missing Part of 10, <b>8-10</b> Continue to Find the Missing Part of 10, <b>10-1</b> Make 11, 12, and 13, <b>10-2</b> Make 14, 15, and 16, <b>10-3</b> Make 17, 18, and 19, <b>10-5</b> Find Parts of 14, 15, and 16, <b>10-6</b> Find Parts of 17, 18, and 19, <b>10-7</b> Math Practices and Problem Solving: Look For and Use Structure
<b>Algebra</b>	
<b>Recognize, create, complete, and extend patterns</b>	
K.2.1.1 Identify, create, complete, and extend simple patterns using shape, color, size, number, sounds and movements. Patterns may be repeating, growing or shrinking such as ABB, ABB, ABB or x, xx, xxx.	<b>S SE/TE: 7-8</b> Use Patterns to Develop Fluency in Subtraction, <b>11-1</b> Count Using Patterns to 30, <b>11-2</b> Count Using Patterns to 50, <b>11-3</b> Count by Tens to 100, <b>11-4</b> Count by Tens and Ones, <b>11-5</b> Count Forward from Any Number to 100, <b>11-6</b> Count Using Patterns to 100, <b>11-7</b> Math Practices and Problem Solving: Look For and Use Structure <b>MN-3</b> Repeating Patterns with Shapes and Numbers <b>MN-4</b> Growing Patterns with Shapes and Numbers

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<b>Geometry &amp; Measurement</b>	
<b>Recognize and sort basic two- and three-dimensional shapes; use them to model real-world objects.</b>	
K.3.1.1 Recognize basic two- and three-dimensional shapes such as squares, circles, triangles, rectangles, trapezoids, hexagons, cubes, cones, cylinders and spheres.	<b>SE/TE: 12-1</b> Two-Dimensional (2-D) and Three-Dimensional (3-D) Shapes, <b>12-2</b> Circles and Triangles, <b>12-3</b> Squares and Other Rectangles, <b>12-4</b> Hexagons, <b>12-5</b> Solid Figures, <b>12-6</b> Describe Shapes in the Environment, <b>13-1</b> Analyze and Compare Two-Dimensional (2-D) Shapes, <b>13-2</b> Analyze and Compare Three-Dimensional (3-D) Shapes, <b>13-3</b> Compare 2-D and 3-D Shapes, <b>13-4</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>13-5</b> Make 2-D Shapes from Other 2-D Shapes, <b>13-6</b> Build 2-D Shapes, <b>13-7</b> Build 3-D Shapes
K.3.1.2 Sort objects using characteristics such as shape, size, color and thickness.	<b>SE/TE: 5-1</b> Classify Objects into Categories, <b>5-2</b> Count the Number of Objects in Each Category, <b>5-3</b> Sort the Categories by Counting, <b>5-4</b> Math Practices and Problem Solving: Critique Reasoning, <b>12-1</b> Two-Dimensional (2-D) and Three-Dimensional (3-D) Shapes, <b>12-2</b> Circles and Triangles, <b>12-3</b> Squares and Other Rectangles, <b>12-4</b> Hexagons, <b>12-5</b> Solid Figures, <b>12-6</b> Describe Shapes in the Environment, <b>12-8</b> Math Practices and Problem Solving: Precision, <b>13-1</b> Analyze and Compare Two-Dimensional (2-D) Shapes, <b>13-2</b> Analyze and Compare Three-Dimensional (3-D) Shapes, <b>13-3</b> Compare 2-D and 3-D Shapes, <b>13-4</b> Math Practices and Problem Solving: Make Sense and Persevere
K.3.1.3 Use basic shapes and spatial reasoning to model objects in the real-world.	<b>SE/TE: 12-6</b> Describe Shapes in the Environment, <b>12-7</b> Describe the Position of Shapes in the Environment, <b>12-8</b> Math Practices and Problem Solving: Precision
<b>Compare and order objects according to location and measurable attributes</b>	
K.3.2.1 Use words to compare objects according to length, size, weight and position.	<b>SE/TE: 12-7</b> Describe the Position of Shapes in the Environment, <b>12-8</b> Math Practices and Problem Solving: Precision, <b>14-1</b> Compare by Length and Height, <b>14-2</b> Compare by Capacity, <b>14-3</b> Compare by Weight, <b>14-4</b> Describe Objects by Attributes, <b>14-5</b> Describe Objects by Measurable Attributes, <b>14-6</b> Math Practices and Problem Solving: Precision

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<p>K.3.2.2 Order 2 or 3 objects using measurable attributes, such as length and weight.</p>	<p><b>SE/TE: 14-1</b> Compare by Length and Height, <b>14-2</b> Compare by Capacity, <b>14-3</b> Compare by Weight, <b>14-4</b> Describe Objects by Attributes, <b>14-5</b> Describe Objects by Measurable Attributes, <b>14-6</b> Math Practices and Problem Solving: Precision</p>



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<b>Number &amp; Operation</b>	
<b>Count, compare and represent whole numbers up to 120, with an emphasis on groups of tens and ones.</b>	
1.1.1.1 Use place value to describe whole numbers between 10 and 100 in terms of tens and ones.	<b>SE/TE: 7-6</b> Count and Write Numerals, <b>8-1</b> Make Numbers 11 to 19, <b>8-2</b> Numbers Made with Tens, <b>8-3</b> Count with Groups of Tens and Leftovers, <b>8-4</b> Tens and Ones, <b>8-5</b> Continue with Tens and Ones, <b>8-6</b> Math Practices and Problem Solving: Look for and Use Structure, <b>10-5</b> Add Tens and Ones Using Models, <b>10-6</b> Make a Ten to Add, <b>10-7</b> Add Using Place Value, <b>10-8</b> Practice Adding Using Strategies, <b>10-9</b> Math Practices and Problem Solving: Model with Math
1.1.1.2 Read, write and represent whole numbers up to 120. Representations may include numerals, addition and subtraction, pictures, tally marks, number lines and manipulatives, such as bundles of sticks and base 10 blocks.	<b>SE/TE: 7-6</b> Count and Write Numerals, <b>8-1</b> Make Numbers 11 to 19, <b>8-2</b> Numbers Made with Tens, <b>8-3</b> Count with Groups of Tens and Leftovers, <b>8-4</b> Tens and Ones, <b>8-5</b> Continue with Tens and Ones, <b>8-6</b> Math Practices and Problem Solving: Look for and Use Structure, <b>9-1</b> 1 More, 1 Less; 10 More, 10 Less, <b>9-2</b> Make Numbers on a Hundred Chart, <b>9-3</b> Compare Numbers, <b>9-4</b> Compare Numbers with Symbols (>, <, =), <b>9-5</b> Compare Numbers on a Number Line, <b>9-6</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>10-5</b> Add Tens and Ones Using Models, <b>10-6</b> Make a Ten to Add, <b>10-7</b> Add Using Place Value, <b>10-8</b> Practice Adding Using Strategies, <b>10-9</b> Math Practices and Problem Solving: Model with Math
1.1.1.3 Count, with and without objects, forward and backward from any given number up to 120.	<b>SE/TE: 3-2</b> Count On to Add Using an Open Number Line, <b>4-1</b> Count to Subtract, <b>7-2</b> Count by 1s to 120, <b>7-3</b> Count on a Number Chart to 120, <b>7-4</b> Count by 1s or 10s to 120, <b>7-5</b> Count on an Open Number Line, <b>7-6</b> Count and Write Numerals, <b>7-7</b> Math Practices and Problem Solving: Repeated Reasoning, <b>8-1</b> Make Numbers 11 to 19, <b>8-2</b> Numbers Made with Tens, <b>8-3</b> Count with Groups of Tens and Leftovers, <b>8-4</b> Tens and Ones, <b>8-5</b> Continue with Tens and Ones, <b>8-6</b> Math Practices and Problem Solving: Look for and Use Structure, <b>9-1</b> 1 More, 1 Less; 10 More, 10 Less, <b>9-2</b> Make Numbers on a Hundred Chart <b>MN-1</b> Count Backward

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1.1.1.4 Find a number that is 10 more or 10 less than a given number.	<b>SE/TE: 7-1</b> Count by 10s to 120, <b>7-2</b> Count by 1s to 120, <b>7-3</b> Count on a Number Chart to 120, <b>7-4</b> Count by 1s or 10s to 120, <b>7-5</b> Count on an Open Number Line, <b>7-6</b> Count and Write Numerals, <b>7-7</b> Math Practices and Problem Solving: Repeated Reasoning, <b>9-1</b> 1 More, 1 Less; 10 More, 10 Less, <b>9-2</b> Make Numbers on a Hundred Chart, <b>10-1</b> Add Tens Using Models, <b>10-2</b> Mental Math: Ten More Than a Number, <b>10-3</b> Add Tens and Ones Using a Hundred Chart, <b>10-4</b> Add Tens and Ones Using an Open Number Line, <b>10-5</b> Add Tens and Ones Using Models, <b>10-6</b> Make a Ten to Add, <b>11-1</b> Subtract Tens Using Models, <b>11-2</b> Subtract Tens Using a Hundred Chart, <b>11-3</b> Subtract Tens Using an Open Number Line, <b>11-4</b> Use Addition to Subtract Tens, <b>11-5</b> Mental Math: Ten Less Than a Number, <b>11-6</b> Use Strategies to Practice Subtraction, <b>11-7</b> Math Practices and Problem Solving: Model with Math
1.1.1.5 Compare and order whole numbers up to 100.	<b>SE/TE: 9-3</b> Compare Numbers, <b>9-4</b> Compare Numbers with Symbols ( $>$ , $<$ , $=$ ), <b>9-5</b> Compare Numbers on a Number Line, <b>9-6</b> Math Practices and Problem Solving: Make Sense and Persevere
1.1.1.6 Use words to describe the relative size of numbers.	<b>SE/TE: 9-3</b> Compare Numbers, <b>9-4</b> Compare Numbers with Symbols ( $>$ , $<$ , $=$ ), <b>9-5</b> Compare Numbers on a Number Line, <b>9-6</b> Math Practices and Problem Solving: Make Sense and Persevere
1.1.1.7 Use counting and comparison skills to create and analyze bar graphs and tally charts.	<b>SE/TE: 6-1</b> Organize Data into Three Categories, <b>6-2</b> Collect and Represent Data, <b>6-3</b> Interpret Data, <b>6-4</b> Continue to Interpret Data, <b>6-5</b> Math Practices and Problem Solving: Make Sense and Persevere

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<b>Use a variety of models and strategies to solve addition and subtraction problems in real-world and mathematical contexts.</b>	
<p>1.1.2.1 Use words, pictures, objects, length-based models (connecting cubes), numerals and number lines to model and solve addition and subtraction problems in part-part-total, adding to, taking away from and comparing situations.</p>	<p><b>SE/TE: 1-1</b> Solve Problems: Add To, <b>1-2</b> Solve Problems: Put Together, <b>1-3</b> Solve Problems: Both Addends Unknown, <b>1-4</b> Solve Problems: Take From, <b>1-5</b> Solve Problems: Compare Situations, <b>1-6</b> Continue to Solve Problems: Compare Situations, <b>1-7</b> Practice Solving Problems: Add To, <b>1-8</b> Solve Problems: Put Together/Take Apart, <b>1-9</b> Math Practices and Problem Solving: Construct Arguments, <b>2-1</b> Count On to Add, <b>2-2</b> Doubles, <b>2-3</b> Near Doubles, <b>2-4</b> Facts with 5 on a Ten-Frame, <b>2-5</b> Add in Any Order, <b>2-6</b> Count Back to Subtract, <b>2-7</b> Think Addition to Subtract, <b>2-8</b> Continue to Think Addition to Subtract, <b>2-9</b> Solve Word Problems with Facts to 10, <b>2-10</b> Math Practices and Problem Solving: Look for and Use Structure, <b>3-1</b> Count On to Add, <b>3-2</b> Count On to Add Using an Open Number Line, <b>3-3</b> Doubles, <b>3-4</b> Doubles Plus 1, <b>3-5</b> Doubles Plus 2, <b>3-6</b> Make 10 to Add, <b>3-7</b> Continue to Make 10 to Add, <b>3-8</b> Explain Addition Strategies, <b>3-9</b> Solve Addition Word Problems with Facts to 20, <b>3-10</b> Math Practices and Problem Solving: Critique Reasoning, <b>4-1</b> Count to Subtract, <b>4-2</b> Make 10 to Subtract, <b>4-3</b> Continue to Make 10 to Subtract, <b>4-4</b> Fact Families, <b>4-5</b> Use Addition to Subtract, <b>4-6</b> Continue to Use Addition to Subtract, <b>4-7</b> Explain Subtraction Strategies, <b>4-8</b> Solve Word Problems with Facts to 20, <b>4-9</b> Math Practices and Problem Solving: Reasoning, <b>5-1</b> Find the Unknown Numbers, <b>5-2</b> True or False Equations, <b>5-3</b> Make True Equations, <b>5-4</b> Word Problems with Three Addends, <b>5-5</b> Add Three Numbers, <b>5-6</b> Solve Addition and Subtraction Word Problems, <b>5-7</b> Math Practices and Problem Solving: Precision, <b>10-1</b> Add Tens Using Models, <b>10-2</b> Mental Math: Ten More Than a Number, <b>10-3</b> Add Tens and Ones Using a Hundred Chart, <b>10-4</b> Add Tens and Ones Using an Open Number Line, <b>10-5</b> Add Tens and Ones Using Models, <b>10-6</b> Make a Ten to Add, <b>10-7</b> Add Using Place Value, <b>10-8</b> Practice Adding Using Strategies, <b>10-9</b> Math Practices and Problem Solving: Model with Math, <b>11-1</b> Subtract Tens Using Models,</p>

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(Continued) 1.1.2.1 Use words, pictures, objects, length-based models (connecting cubes), numerals and number lines to model and solve addition and subtraction problems in part-part-total, adding to, taking away from and comparing situations.	<b>11-2</b> Subtract Tens Using a Hundred Chart, <b>11-3</b> Subtract Tens Using an Open Number Line, <b>11-4</b> Use Addition to Subtract Tens, <b>11-5</b> Mental Math: Ten Less Than a Number, <b>11-6</b> Use Strategies to Practice Subtraction, <b>11-7</b> Math Practices and Problem Solving: Model with Math
1.1.2.2 Compose and decompose numbers up to 12 with an emphasis on making ten.	<b>SE/TE: 3-6</b> Make 10 to Add, <b>3-7</b> Continue to Make 10 to Add, <b>4-2</b> Make 10 to Subtract, <b>4-3</b> Continue to Make 10 to Subtract, <b>4-4</b> Fact Families, <b>4-5</b> Use Addition to Subtract, <b>4-6</b> Continue to Use Addition to Subtract
1.1.2.3 Recognize the relationship between counting and addition and subtraction. Skip count by 2s, 5s, and 10s.	<b>SE/TE: 7-1</b> Count by 10s to 120, <b>7-2</b> Count by 1s to 120, <b>7-3</b> Count on a Number Chart to 120, <b>7-4</b> Count by 1s or 10s to 120, <b>7-5</b> Count on an Open Number Line, <b>7-6</b> Count and Write Numerals, <b>7-7</b> Math Practices and Problem Solving: Repeated Reasoning <b>MN-2</b> Count by 2s, 5s, and 10s
<b>Algebra</b>	
<b>Recognize and create patterns; use rules to describe patterns.</b>	
1.2.1.1 Create simple patterns using objects, pictures, numbers and rules. Identify possible rules to complete or extend patterns. Patterns may be repeating, growing or shrinking. Calculators can be used to create and explore patterns.	<b>SE/TE: 2-10</b> Math Practices and Problem Solving: Look for and Use Structure, <b>7-1</b> Count by 10s to 120, <b>7-2</b> Count by 1s to 120, <b>7-3</b> Count on a Number Chart to 120, <b>7-4</b> Count by 1s or 10s to 120, <b>7-5</b> Count on an Open Number Line, <b>7-6</b> Count and Write Numerals, <b>7-7</b> Math Practices and Problem Solving: Repeated Reasoning <b>MN-3</b> Number Patterns <b>MN-7</b> Patterns with Shapes
<b>Use number sentences involving addition and subtraction basic facts to represent and solve real-world and mathematical problems; create real-world situations corresponding to number sentences.</b>	
1.2.2.1 Represent real-world situations involving addition and subtraction basic facts, using objects and number sentences.	<b>SE/TE: 1-1</b> Solve Problems: Add To, <b>1-2</b> Solve Problems: Put Together, <b>1-3</b> Solve Problems: Both Addends Unknown, <b>1-4</b> Solve Problems: Take From, <b>1-5</b> Solve Problems: Compare Situations, <b>1-6</b> Continue to Solve Problems: Compare Situations, <b>1-7</b> Practice Solving Problems: Add To, <b>1-8</b> Solve Problems: Put Together/Take Apart,

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<p>(Continued) 1.2.2.1 Represent real-world situations involving addition and subtraction basic facts, using objects and number sentences.</p>	<p><b>1-9</b> Math Practices and Problem Solving: Construct Arguments, <b>2-1</b> Count On to Add, <b>2-2</b> Doubles, <b>2-3</b> Near Doubles, <b>2-4</b> Facts with 5 on a Ten-Frame, <b>2-5</b> Add in Any Order, <b>2-6</b> Count Back to Subtract, <b>2-7</b> Think Addition to Subtract, <b>2-8</b> Continue to Think Addition to Subtract, <b>2-9</b> Solve Word Problems with Facts to 10, <b>2-10</b> Math Practices and Problem Solving: Look for and Use Structure, <b>3-1</b> Count On to Add, <b>3-2</b> Count On to Add Using an Open Number Line, <b>3-3</b> Doubles, <b>3-4</b> Doubles Plus 1, <b>3-5</b> Doubles Plus 2, <b>3-6</b> Make 10 to Add, <b>3-7</b> Continue to Make 10 to Add, <b>3-8</b> Explain Addition Strategies, <b>3-9</b> Solve Addition Word Problems with Facts to 20, <b>3-10</b> Math Practices and Problem Solving: Critique Reasoning, <b>4-1</b> Count to Subtract, <b>4-2</b> Make 10 to Subtract, <b>4-3</b> Continue to Make 10 to Subtract, <b>4-4</b> Fact Families, <b>4-5</b> Use Addition to Subtract, <b>4-6</b> Continue to Use Addition to Subtract, <b>4-7</b> Explain Subtraction Strategies, <b>4-8</b> Solve Word Problems with Facts to 20, <b>4-9</b> Math Practices and Problem Solving: Reasoning, <b>5-1</b> Find the Unknown Numbers, <b>5-2</b> True or False Equations, <b>5-3</b> Make True Equations, <b>5-4</b> Word Problems with Three Addends, <b>5-5</b> Add Three Numbers, <b>5-6</b> Solve Addition and Subtraction Word Problems, <b>5-7</b> Math Practices and Problem Solving: Precision, <b>6-1</b> Organize Data into Three Categories, <b>6-2</b> Collect and Represent Data, <b>6-3</b> Interpret Data, <b>6-4</b> Continue to Interpret Data, <b>6-5</b> Math Practices and Problem Solving: Make Sense and Persevere</p>
<p>1.2.2.2 Determine if equations involving addition and subtraction are true.</p>	<p><b>SE/TE: 2-5</b> Add in Any Order, <b>5-2</b> True or False Equations, <b>5-3</b> Make True Equations</p>
<p>1.2.2.3 Use number sense and models of addition and subtraction, such as objects and number lines, to identify the missing number in an equation such as: <math>2 + 4 = \underline{\quad}</math>; <math>3 + \underline{\quad} = 7</math>; <math>5 = \underline{\quad} - 3</math>.</p>	<p><b>SE/TE: 1-3</b> Solve Problems: Both Addends Unknown, <b>5-1</b> Find the Unknown Numbers, <b>5-7</b> Math Practices and Problem Solving: Precision</p>

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<p>1.2.2.4 Use addition or subtraction basic facts to represent a given problem situation using a number sentence.</p>	<p><b>SE/TE: 1-1</b> Solve Problems: Add To, <b>1-2</b> Solve Problems: Put Together, <b>1-3</b> Solve Problems: Both Addends Unknown, <b>1-4</b> Solve Problems: Take From, <b>1-5</b> Solve Problems: Compare Situations, <b>1-6</b> Continue to Solve Problems: Compare Situations, <b>1-7</b> Practice Solving Problems: Add To, <b>1-8</b> Solve Problems: Put Together/Take Apart, <b>1-9</b> Math Practices and Problem Solving: Construct Arguments, <b>2-1</b> Count On to Add, <b>2-2</b> Doubles, <b>2-3</b> Near Doubles, <b>2-4</b> Facts with 5 on a Ten-Frame, <b>2-5</b> Add in Any Order, <b>2-6</b> Count Back to Subtract, <b>2-7</b> Think Addition to Subtract, <b>2-8</b> Continue to Think Addition to Subtract, <b>2-9</b> Solve Word Problems with Facts to 10, <b>2-10</b> Math Practices and Problem Solving: Look for and Use Structure, <b>3-1</b> Count On to Add, <b>3-2</b> Count On to Add Using an Open Number Line, <b>3-3</b> Doubles, <b>3-4</b> Doubles Plus 1, <b>3-5</b> Doubles Plus 2, <b>3-6</b> Make 10 to Add, <b>3-7</b> Continue to Make 10 to Add, <b>3-8</b> Explain Addition Strategies, <b>3-9</b> Solve Addition Word Problems with Facts to 20, <b>3-10</b> Math Practices and Problem Solving: Critique Reasoning, <b>4-1</b> Count to Subtract, <b>4-2</b> Make 10 to Subtract, <b>4-3</b> Continue to Make 10 to Subtract, <b>4-4</b> Fact Families, <b>4-5</b> Use Addition to Subtract, <b>4-6</b> Continue to Use Addition to Subtract, <b>4-7</b> Explain Subtraction Strategies, <b>4-8</b> Solve Word Problems with Facts to 20, <b>4-9</b> Math Practices and Problem Solving: Reasoning, <b>5-1</b> Find the Unknown Numbers, <b>5-2</b> True or False Equations, <b>5-3</b> Make True Equations, <b>5-4</b> Word Problems with Three Addends, <b>5-5</b> Add Three Numbers, <b>5-6</b> Solve Addition and Subtraction Word Problems, <b>5-7</b> Math Practices and Problem Solving: Precision</p>
<p><b>Geometry &amp; Measurement</b></p>	
<p><b>Describe characteristics of basic shapes. Use basic shapes to compose and decompose other objects in various contexts.</b></p>	
<p>1.3.1.1 Describe characteristics of two- and three-dimensional objects, such as triangles, squares, rectangles, circles, rectangular prisms, cylinders, cones and spheres.</p>	<p><b>SE/TE: 14-1</b> Use Attributes to Define Two-Dimensional (2-D) Shapes, <b>14-2</b> Defining and Non-Defining Attributes of 2-D Shapes, <b>14-3</b> Build and Draw 2-D Shapes by Attributes,</p>

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(Continued) 1.3.1.1 Describe characteristics of two- and three-dimensional objects, such as triangles, squares, rectangles, circles, rectangular prisms, cylinders, cones and spheres.	<b>14-6</b> Use Attributes to Define Three-Dimensional (3-D) Shapes, <b>14-7</b> Defining and Non-Defining Attributes of 3-D Shapes, <b>14-9</b> Math Practices and Problem Solving: Make Sense and Persevere
1.3.1.2 Compose (combine) and decompose (take apart) two- and three-dimensional figures such as triangles, squares, rectangles, circles, rectangular prisms and cylinders.	<b>SE/TE: 14-3</b> Build and Draw 2-D Shapes by Attributes, <b>14-4</b> Compose 2-D Shapes, <b>14-5</b> Compose New 2-D Shapes from 2-D Shapes, <b>14-8</b> Compose with 3-D Shapes, <b>14-9</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>15-1</b> Make Equal Shares, <b>15-2</b> Make Halves and Fourths of Rectangles and Circles, <b>15-3</b> Understand Halves and Fourths, <b>15-4</b> Math Practices and Problem Solving: Model with Math
<b>Use basic concepts of measurement in real-world and mathematical situations involving length, time and money.</b>	
1.3.2.1 Measure the length of an object in terms of multiple copies of another object.	<b>SE/TE: 12-1</b> Compare and Order by Length, <b>12-2</b> Indirect Measurement, <b>12-3</b> Use Units to Measure Length, <b>12-4</b> Continue to Measure Length, <b>12-5</b> Math Practices and Problem Solving: Use Appropriate Tools
1.3.2.2 Tell time to the hour and half-hour.	<b>SE/TE: 13-1</b> Understand the Hour and Minute Hands, <b>13-2</b> Tell and Write Time to the Hour, <b>13-3</b> Tell and Write Time to the Half Hour, <b>13-4</b> Math Practices and Problem Solving: Reasoning
1.3.2.3 Identify pennies, nickels and dimes and find the value of a group of these coins, up to one dollar.	<b>MN-4</b> Values of Pennies and Nickels <b>MN-5</b> Values of Dimes <b>MN-6</b> Values of Pennies, Nickels, and Dimes

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<b>Number &amp; Operation</b>	
<b>Compare and represent whole numbers up to 1000 with an emphasis on place value and equality.</b>	
2.1.1.1 Read, write and represent whole numbers up to 1000. Representations may include numerals, addition, subtraction, multiplication, words, pictures, tally marks, number lines and manipulatives, such as bundles of sticks and base 10 blocks.	<b>SE/TE: 6-1</b> Regroup 1 Ten to 10 Ones, <b>6-2</b> Models to Subtract 2-Digit and 1-Digit Numbers, <b>6-3</b> Subtract 2-Digit and 1-Digit Numbers, <b>6-4</b> Models to Subtract 2-Digit Numbers, <b>6-5</b> Subtract 2-Digit Numbers, <b>9-1</b> Understand Hundreds, <b>9-2</b> Models and 3-Digit Numbers, <b>9-3</b> Name Place Values, <b>9-4</b> Read and Write 3-Digit Numbers, <b>9-5</b> Different Ways to Name the Same Number, <b>9-6</b> Place-Value Patterns with Numbers, <b>9-8</b> Compare Numbers Using Place Value, <b>9-9</b> Compare Numbers on the Number Line, <b>9-10</b> Math Practices and Problem Solving: Look For and Use Structure, <b>10-1</b> Add 10 and 100, <b>11-1</b> Subtract 10 and 100
2.1.1.2 Use place value to describe whole numbers between 10 and 1000 in terms of hundreds, tens and ones. Know that 100 is 10 tens, and 1000 is 10 hundreds.	<b>SE/TE: 6-1</b> Regroup 1 Ten to 10 Ones, <b>6-2</b> Models to Subtract 2-Digit and 1-Digit Numbers, <b>6-3</b> Subtract 2-Digit and 1-Digit Numbers, <b>6-4</b> Models to Subtract 2-Digit Numbers, <b>6-5</b> Subtract 2-Digit Numbers, <b>9-1</b> Understand Hundreds, <b>9-2</b> Models and 3-Digit Numbers, <b>9-3</b> Name Place Values, <b>9-4</b> Read and Write 3-Digit Numbers, <b>9-5</b> Different Ways to Name the Same Number, <b>9-6</b> Place-Value Patterns with Numbers, <b>9-8</b> Compare Numbers Using Place Value, <b>9-9</b> Compare Numbers on the Number Line, <b>9-10</b> Math Practices and Problem Solving: Look For and Use Structure, <b>10-1</b> Add 10 and 100, <b>11-1</b> Subtract 10 and 100
2.1.1.3 Find 10 more or 10 less than a given three-digit number. Find 100 more or 100 less than a given three-digit number.	<b>SE/TE: 10-1</b> Add 10 and 100, <b>11-1</b> Subtract 10 and 100
2.1.1.4 Round numbers up to the nearest 10 and 100 and round numbers down to the nearest 10 and 100.	<b>MN-1</b> Round Whole Numbers
2.1.1.5 Compare and order whole numbers up to 1000.	<b>SE/TE: 9-8</b> Compare Numbers Using Place Value, <b>9-9</b> Compare Numbers on the Number Line, <b>9-10</b> Math Practices and Problem Solving: Look For and Use Structure



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<b>Demonstrate mastery of addition and subtraction basic facts; add and subtract one- and two-digit numbers in real-world and mathematical problems.</b>	
2.1.2.1 Use strategies to generate addition and subtraction facts including making tens, fact families, doubles plus or minus one, counting on, counting back, and the commutative and associative properties. Use the relationship between addition and subtraction to generate basic facts.	<b>SE/TE: 1-1</b> Addition Fact Strategies, <b>1-2</b> Doubles and Near Doubles, <b>1-3</b> Make a 10 to Add, <b>1-4</b> Addition Fact Patterns, <b>1-5</b> Count On and Count Back to Subtract, <b>1-6</b> Think Addition to Subtract, <b>1-7</b> Make a 10 to Subtract, <b>1-8</b> Practice Addition and Subtraction Facts, <b>1-9</b> Solve Addition and Subtraction Word Problems, <b>1-10</b> Math Practices and Problem Solving: Construct Arguments, <b>2-5</b> Math Practices and Problem Solving: Model with Math
2.1.2.2 Demonstrate fluency with basic addition facts and related subtraction facts.	<b>SE/TE: 1-1</b> Addition Fact Strategies, <b>1-2</b> Doubles and Near Doubles, <b>1-3</b> Make a 10 to Add, <b>1-4</b> Addition Fact Patterns, <b>1-5</b> Count On and Count Back to Subtract, <b>1-6</b> Think Addition to Subtract, <b>1-7</b> Make a 10 to Subtract, <b>1-8</b> Practice Addition and Subtraction Facts, <b>1-9</b> Solve Addition and Subtraction Word Problems, <b>1-10</b> Math Practices and Problem Solving: Construct Arguments, <b>2-5</b> Math Practices and Problem Solving: Model with Math
2.1.2.3 Estimate sums and differences up to 100.	<b>MN-2</b> Estimate Sums <b>MN-2</b> Estimate Differences
2.1.2.4 Use mental strategies and algorithms based on knowledge of place value to add and subtract two-digit numbers. Strategies may include decomposition, expanded notation, and partial sums and differences.	<b>SE/TE: 3-1</b> Add Tens and Ones on a Hundred Chart, <b>3-2</b> Add Tens on an Open Number Line, <b>3-3</b> Add Tens and Ones on an Open Number Line, <b>3-4</b> Break Apart Numbers to Add, <b>3-5</b> Continue to Break Apart Numbers to Add, <b>3-6</b> Add Using Compensation, <b>3-7</b> Practice Adding Using Strategies, <b>3-8</b> Solve One-Step and Two-Step Problems, <b>3-9</b> Math Practices and Problem Solving: Use Appropriate Tools, <b>4-1</b> Add with Partial Sums, <b>4-2</b> Continue to Add with Partial Sums, <b>4-3</b> Models to Add 2-Digit Numbers, <b>4-4</b> Add 2-Digit Numbers, <b>4-5</b> Add More than Two 2-Digit Numbers, <b>4-6</b> Practice Adding, <b>4-7</b> Solve One-Step and Two-Step Problems, <b>4-8</b> Math Practices and Problem Solving: Model with Math, <b>5-1</b> Subtract Tens and Ones on a Hundred Chart, <b>5-2</b> Count Back to Subtract on an Open Number Line,

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<p>(Continued)</p> <p>2.1.2.4 Use mental strategies and algorithms based on knowledge of place value to add and subtract two-digit numbers. Strategies may include decomposition, expanded notation, and partial sums and differences.</p>	<p><b>5-3</b> Continue to Count Back to Subtract on an Open Number Line, <b>5-4</b> Add Up to Subtract Using an Open Number Line, <b>5-5</b> Break Apart Numbers to Subtract, <b>5-6</b> Continue to Break Apart Numbers to Subtract, <b>5-7</b> Subtract Using Compensation, <b>5-8</b> Solve One-Step and Two-Step Problems, <b>5-9</b> Math Practices and Problem Solving: Critique Reasoning, <b>6-1</b> Regroup 1 Ten to 10 Ones, <b>6-2</b> Models to Subtract 2-Digit and 1-Digit Numbers, <b>6-3</b> Subtract 2-Digit and 1-Digit Numbers, <b>6-4</b> Models to Subtract 2-Digit Numbers, <b>6-5</b> Subtract 2-Digit Numbers, <b>6-6</b> Use Addition to Check Subtraction, <b>6-7</b> Practice Subtracting, <b>6-8</b> Solve One-Step and Two-Step Problems, <b>6-9</b> Math Practices and Problem Solving: Reasoning, <b>7-1</b> Represent Addition and Subtraction Problems, <b>7-2</b> Mixed Practice: Solve Addition and Subtraction Problems, <b>7-3</b> Continue Practice with Addition and Subtraction Problems, <b>7-4</b> Solve Two-Step Problems, <b>7-5</b> Continue to Solve Two-Step Problems, <b>7-6</b> Math Practices and Problem Solving: Reasoning, <b>10-3</b> Add Using Mental Math, <b>10-4</b> Add Using Partial Sums, <b>10-5</b> Use Models to Add, <b>10-6</b> Explain Addition Strategies, <b>10-7</b> Math Practices and Problem Solving: Repeated Reasoning, <b>11-4</b> Subtract Using Mental Math, <b>11-6</b> Explain Subtraction Strategies, <b>11-7</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>13-5</b> Math Practices and Problem Solving: Use Appropriate Tools</p>

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<p>2.1.2.5 Solve real-world and mathematical addition and subtraction problems involving whole numbers with up to 2 digits.</p>	<p><b>SE/TE: 1-1</b> Addition Fact Strategies, <b>1-2</b> Doubles and Near Doubles, <b>1-3</b> Make a 10 to Add, <b>1-4</b> Addition Fact Patterns, <b>1-5</b> Count On and Count Back to Subtract, <b>1-6</b> Think Addition to Subtract, <b>1-7</b> Make a 10 to Subtract, <b>1-8</b> Practice Addition and Subtraction Facts, <b>1-9</b> Solve Addition and Subtraction Word Problems, <b>1-10</b> Math Practices and Problem Solving: Construct Arguments, <b>2-5</b> Math Practices and Problem Solving: Model with Math, <b>3-1</b> Add Tens and Ones on a Hundred Chart, <b>3-2</b> Add Tens on an Open Number Line, <b>3-3</b> Add Tens and Ones on an Open Number Line, <b>3-4</b> Break Apart Numbers to Add, <b>3-5</b> Continue to Break Apart Numbers to Add, <b>3-6</b> Add Using Compensation, <b>3-7</b> Practice Adding Using Strategies, <b>3-8</b> Solve One-Step and Two-Step Problems, <b>3-9</b> Math Practices and Problem Solving: Use Appropriate Tools, <b>4-1</b> Add with Partial Sums, <b>4-2</b> Continue to Add with Partial Sums, <b>4-3</b> Models to Add 2-Digit Numbers, <b>4-4</b> Add 2-Digit Numbers, <b>4-5</b> Add More than Two 2-Digit Numbers, <b>4-6</b> Practice Adding, <b>4-7</b> Solve One-Step and Two-Step Problems, <b>4-8</b> Math Practices and Problem Solving: Model with Math, <b>5-1</b> Subtract Tens and Ones on a Hundred Chart, <b>5-2</b> Count Back to Subtract on an Open Number Line, <b>5-3</b> Continue to Count Back to Subtract on an Open Number Line, <b>5-4</b> Add Up to Subtract Using an Open Number Line, <b>5-5</b> Break Apart Numbers to Subtract, <b>5-6</b> Continue to Break Apart Numbers to Subtract, <b>5-7</b> Subtract Using Compensation, <b>5-8</b> Solve One-Step and Two-Step Problems, <b>5-9</b> Math Practices and Problem Solving: Critique Reasoning, <b>6-1</b> Regroup 1 Ten to 10 Ones, <b>6-2</b> Models to Subtract 2-Digit and 1-Digit Numbers, <b>6-3</b> Subtract 2-Digit and 1-Digit Numbers, <b>6-4</b> Models to Subtract 2-Digit Numbers, <b>6-5</b> Subtract 2-Digit Numbers, <b>6-6</b> Use Addition to Check Subtraction, <b>6-7</b> Practice Subtracting, <b>6-8</b> Solve One-Step and Two-Step Problems, <b>6-9</b> Math Practices and Problem Solving: Reasoning, <b>7-1</b> Represent Addition and Subtraction Problems, <b>7-2</b> Mixed Practice: Solve Addition and Subtraction Problems, <b>7-3</b> Continue Practice with Addition and Subtraction Problems,</p>

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(Continued) 2.1.2.5 Solve real-world and mathematical addition and subtraction problems involving whole numbers with up to 2 digits.	<b>7-4</b> Solve Two-Step Problems, <b>7-5</b> Continue to Solve Two-Step Problems, <b>7-6</b> Math Practices and Problem Solving: Reasoning, <b>8-4</b> Continue to Solve Problems with Dollar Bills, <b>8-5</b> Math Practices and Problem Solving: Reasoning, <b>10-3</b> Add Using Mental Math, <b>10-4</b> Add Using Partial Sums, <b>10-6</b> Explain Addition Strategies, <b>10-7</b> Math Practices and Problem Solving: Repeated Reasoning, <b>11-4</b> Subtract Using Mental Math, <b>11-6</b> Explain Subtraction Strategies, <b>11-7</b> Math Practices and Problem Solving: Make Sense and Persevere
2.1.2.6 Use addition and subtraction to create and obtain information from tables, bar graphs and tally charts.	<b>SE/TE: 14-3</b> Bar Graphs, <b>14-5</b> Draw Conclusions from Graphs, <b>14-6</b> Math Practices and Problem Solving
<b>Algebra</b>	
<b>Recognize, create, describe, and use patterns and rules to solve real-world and mathematical problems.</b>	
2.2.1.1 Identify, create and describe simple number patterns involving repeated addition or subtraction, skip counting and arrays of objects such as counters or tiles. Use patterns to solve problems in various contexts.	<b>SE/TE: 1-4</b> Addition Fact Patterns, <b>1-5</b> Count On and Count Back to Subtract, <b>2-3</b> Use Arrays to Find Totals, <b>2-4</b> Make Arrays to Find Totals, <b>2-5</b> Math Practices and Problem Solving: Model with Math, <b>8-1</b> Solve Problems with Coins, <b>8-2</b> Continue to Solve Problems with Coins, <b>8-3</b> Solve Problems with Dollar Bills, <b>8-6</b> Tell Time to Five Minutes, <b>8-7</b> Tell Time Before and After the Hour, <b>8-8</b> A.M. and P.M., <b>9-6</b> Place-Value Patterns with Numbers, <b>9-7</b> Skip Count by 5s, 10s, and 100s to 1,000, <b>9-10</b> Math Practices and Problem Solving: Look For and Use Structure

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<p><b>Use number sentences involving addition, subtraction and unknowns to represent and solve real-world and mathematical problems; create real-world situations corresponding to number sentences.</b></p>	
<p>2.2.2.1 Understand how to interpret number sentences involving addition, subtraction and unknowns represented by letters. Use objects and number lines and create real-world situations to represent number sentences.</p>	<p>Students interpret number sentences involving addition and subtraction in every lesson in Topics 1, 3, 4, 5, 6, 7, 10, and 11 (the topics devoted to the algorithms and applications of addition and subtraction). The following lessons focus specifically on applications of these operations.</p> <p><b>SE/TE: 1-9</b> Addition and Subtraction Word Problems, <b>3-8</b> Solve One-Step and Two-Step Problems, <b>4-7</b> Solve One-Step and Two-Step Problems, <b>4-8</b> Math Practices and Problem Solving: Model with Math, <b>5-8</b> Solve One-Step and Two-Step Problems, <b>5-9</b> Math Practices and Problem Solving: Critique Reasoning, <b>6-8</b> Solve One-Step and Two-Step Problems, <b>6-9</b> Math Practices and Problem Solving: Reasoning, <b>7-1</b> Represent Addition and Subtraction Problems, <b>7-2</b> Mixed Practice: Solve Addition and Subtraction Problems, <b>7-3</b> Continue Practice with Addition and Subtraction Problems, <b>7-4</b> Solve Two-Step Problems, <b>7-5</b> Continue to Solve Two-Step Problems, <b>7-6</b> Math Practices and Problem Solving: Reasoning, <b>8-3</b> Solve Problems with Dollar Bills, <b>8-4</b> Continue to Solve Problems with Dollar Bills, <b>8-5</b> Math Practices and Problem Solving: Reasoning, <b>11-7</b> Math Practices and Problem Solving: Make Sense and Persevere <b>MN-2</b> Interpret Number Sentences</p>
<p>2.2.2.2 Use number sentences involving addition, subtraction, and unknowns to represent given problem situations. Use number sense and properties of addition and subtraction to find values for the unknowns that make the number sentences true.</p>	<p><b>SE/TE: 1-1</b> Addition Fact Strategies, <b>1-2</b> Doubles and Near Doubles, <b>1-3</b> Make a 10 to Add, <b>1-4</b> Addition Fact Patterns, <b>1-5</b> Count On and Count Back to Subtract, <b>1-6</b> Think Addition to Subtract, <b>1-7</b> Make a 10 to Subtract, <b>1-8</b> Practice Addition and Subtraction Facts, <b>1-9</b> Solve Addition and Subtraction Word Problems, <b>1-10</b> Math Practices and Problem Solving: Construct Arguments, <b>2-5</b> Math Practices and Problem Solving: Model with Math <b>MN-4</b> True and False Number Sentences</p>

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<b>Geometry &amp; Measurement</b>	
<b>Identify, describe and compare basic shapes according to their geometric attributes.</b>	
2.3.1.1 Describe, compare, and classify two- and three-dimensional figures according to number and shape of faces, and the number of sides, edges and vertices (corners).	<b>SE/TE: 15-1</b> 2-Dimensional Shapes, <b>15-2</b> Polygons and Angles, <b>15-3</b> Draw 2-Dimensional Shapes, <b>15-4</b> Cubes
2.3.1.2 Identify and name basic two- and three-dimensional shapes, such as squares, circles, triangles, rectangles, trapezoids, hexagons, cubes, rectangular prisms, cones, cylinders and spheres.	<b>SE/TE: 15-1</b> 2-Dimensional Shapes, <b>15-2</b> Polygons and Angles, <b>15-3</b> Draw 2-Dimensional Shapes, <b>15-4</b> Cubes
<b>Understand length as a measurable attribute; use tools to measure length.</b>	
2.3.2.1 Understand the relationship between the size of the unit of measurement and the number of units needed to measure the length of an object.	<b>SE/TE: 12-1</b> Estimating Length, <b>12-8</b> Compare Lengths
2.3.2.2 Demonstrate an understanding of the relationship between length and the numbers on a ruler by using a ruler to measure lengths to the nearest centimeter or inch.	<b>SE/TE: 12-2</b> Measure with Inches, <b>12-3</b> Inches, Feet, and Yards, <b>12-4</b> Measure Length Using Different Customary Units, <b>12-5</b> Measure with Centimeters, <b>12-6</b> Centimeters and Meters, <b>12-7</b> Measure Length Using Different Metric Units, <b>12-8</b> Compare Lengths, <b>12-9</b> Math Practices and Problem Solving: Precision
<b>Use time and money in real-world and mathematical situations.</b>	
2.3.3.1 Tell time to the quarter-hour and distinguish between a.m. and p.m.	<b>SE/TE: 8-6</b> Tell Time to Five Minutes, <b>8-7</b> Tell Time Before and After the Hour, <b>8-8</b> A.M. and P.M.
2.3.3.2 Identify pennies, nickels, dimes and quarters. Find the value of a group of coins and determine combinations of coins that equal a given amount.	<b>SE/TE: 8-1</b> Solve Problems with Coins, <b>8-2</b> Continue to Solve Problems with Coins, <b>8-5</b> Math Practices and Problem Solving: Reasoning

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<b>Number &amp; Operation</b>	
<b>Compare and represent whole numbers up to 100,000 with an emphasis on place value and equality.</b>	
3.1.1.1 Read, write and represent whole numbers up to 100,000. Representations may include numerals, expressions with operations, words, pictures, number lines, and manipulatives such as bundles of sticks and base 10 blocks.	<b>SE/TE: 8-3</b> Round Whole Numbers  <b>MN-1</b> Numbers to 100,000
3.1.1.2 Use place value to describe whole numbers between 1000 and 100,000 in terms of ten thousands, thousands, hundreds, tens and ones.	<b>SE/TE: 8-3</b> Round Whole Numbers  <b>MN-2</b> Place Value to 100,000
3.1.1.3 Find 10,000 more or 10,000 less than a given five-digit number. Find 1000 more or 1000 less than a given four- or five-digit. Find 100 more or 100 less than a given four- or five-digit number.	<b>MN-4</b> 100, 1,000, 10,000 More or Less
3.1.1.4 Round numbers to the nearest 10,000, 1000, 100 and 10. Round up and round down to estimate sums and differences.	<b>SE/TE: 8-3</b> Round Whole Numbers, <b>8-6</b> Estimate Sums, <b>8-7</b> Estimate Differences
3.1.1.5 Compare and order whole numbers up to 100,000.	<b>MN-3</b> Compare Numbers
Add and subtract multi-digit whole numbers; represent multiplication and division in various ways; solve real-world and mathematical problems using arithmetic.	
3.1.2.1 Add and subtract multi-digit numbers, using efficient and generalizable procedures based on knowledge of place value, including standard algorithms.	<b>SE/TE: 8-1</b> Addition Properties, <b>8-2</b> Algebra: Addition Patterns, <b>8-4</b> Mental Math: Addition, <b>8-5</b> Mental Math: Subtraction, <b>8-6</b> Estimate Sums, <b>8-7</b> Estimate Differences, <b>8-8</b> Relate Addition and Subtraction, <b>8-9</b> Math Practices and Problem Solving: Model with Math, <b>9-1</b> Use Partial Sums to Add, <b>9-2</b> Add 3-Digit Numbers, <b>9-3</b> Continue to Add 3-Digit Numbers, <b>9-4</b> Add 3 or More Numbers, <b>9-5</b> Use Partial Differences to Subtract, <b>9-6</b> Subtract 3-Digit Numbers, <b>9-7</b> Continue to Subtract 3-Digit Numbers, <b>9-8</b> Math Practices and Problem Solving: Construct Arguments

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<p>3.1.2.2 Use addition and subtraction to solve real-world and mathematical problems involving whole numbers. Use various strategies, including the relationship between addition and subtraction, the use of technology, and the context of the problem to assess the reasonableness of results.</p>	<p><b>SE/TE: 8-1</b> Addition Properties, <b>8-2</b> Algebra: Addition Patterns, <b>8-4</b> Mental Math: Addition, <b>8-5</b> Mental Math: Subtraction, <b>8-6</b> Estimate Sums, <b>8-7</b> Estimate Differences, <b>8-8</b> Relate Addition and Subtraction, <b>8-9</b> Math Practices and Problem Solving: Model with Math, <b>9-1</b> Use Partial Sums to Add, <b>9-2</b> Add 3-Digit Numbers, <b>9-3</b> Continue to Add 3-Digit Numbers, <b>9-4</b> Add 3 or More Numbers, <b>9-5</b> Use Partial Differences to Subtract, <b>9-6</b> Subtract 3-Digit Numbers, <b>9-7</b> Continue to Subtract 3-Digit Numbers, <b>9-8</b> Math Practices and Problem Solving: Construct Arguments, <b>11-1</b> Solve 2-Step Word Problems: Addition and Subtraction, <b>11-3</b> Solve 2-Step Word Problems: All Operations, <b>11-4</b> Math Practices and Problem Solving: Critique Reasoning</p>
<p>3.1.2.3 Represent multiplication facts by using a variety of approaches, such as repeated addition, equal-sized groups, arrays, area models, equal jumps on a number line and skip counting. Represent division facts by using a variety of approaches, such as repeated subtraction, equal sharing and forming equal groups. Recognize the relationship between multiplication and division.</p>	<p><b>SE/TE: 1-1</b> Multiplication as Repeated Addition, <b>1-2</b> Multiplication on the Number Line, <b>1-3</b> Arrays and Multiplication, <b>1-4</b> The Commutative Property, <b>1-5</b> Division as Sharing, <b>1-6</b> Division as Repeated Subtraction, <b>1-7</b> Math Practices and Problem Solving: Use Appropriate Tools, <b>2-1</b> 2 and 5 as Factors, <b>2-2</b> 9 as a Factor, <b>2-3</b> Apply Properties: Multiply by 0 and 1, <b>2-4</b> Multiply by 10, <b>2-5</b> Multiplication Facts: 0, 1, 2, 5, 9, and 10, <b>2-6</b> Math Practices and Problem Solving: Model with Math, <b>3-1</b> The Distributive Property, <b>3-2</b> Apply Properties: 3 as a Factor, <b>3-3</b> Apply Properties: 4 as a Factor, <b>3-4</b> Apply Properties: 6 and 7 as Factors, <b>3-5</b> Apply Properties: 8 as a Factor, <b>3-6</b> Practice Multiplication Facts, <b>3-7</b> The Associative Property: Multiply with 3 Factors, <b>4-1</b> Relate Multiplication and Division, <b>4-2</b> Use Multiplication to Divide with 2, 3, 4, and 5, <b>4-3</b> Use Multiplication to Divide with 6 and 7, <b>4-4</b> Use Multiplication to Divide with 8 and 9, <b>4-5</b> Multiplication Patterns: Even and Odd Numbers, <b>4-6</b> Division Involving 0 and 1, <b>4-7</b> Practice Multiplication and Division Facts, <b>4-8</b> Solve Multiplication and Division Equations, <b>4-9</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>5-1</b> Patterns for Multiplication Facts, <b>5-2</b> Use a Multiplication Table, <b>5-3</b> Find Missing Numbers in a Multiplication Table, <b>5-4</b> Use Strategies to Multiply,</p>



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<p>(Continued) 3.1.2.3 Represent multiplication facts by using a variety of approaches, such as repeated addition, equal-sized groups, arrays, area models, equal jumps on a number line and skip counting. Represent division facts by using a variety of approaches, such as repeated subtraction, equal sharing and forming equal groups. Recognize the relationship between multiplication and division.</p>	<p><b>5-5</b> Solve Word Problems: Multiplication and Division Facts, <b>5-6</b> Write Math Stories: Multiplication, <b>5-7</b> Write Math Stories: Division, <b>6-5</b> Apply Properties: Area and the Distributive Property, <b>10-1</b> Use an Open Number Line to Multiply, <b>10-2</b> Use Properties to Multiply, <b>10-4</b> Math Practices and Problem Solving: Look For and Use Structure</p>
<p>3.1.2.4 Solve real-world and mathematical problems involving multiplication and division, including both "how many in each group" and "how many groups" division problems.</p>	<p><b>SE/TE: 1-1</b> Multiplication as Repeated Addition, <b>1-2</b> Multiplication on the Number Line, <b>1-3</b> Arrays and Multiplication, <b>1-4</b> The Commutative Property, <b>1-5</b> Division as Sharing, <b>1-6</b> Division as Repeated Subtraction, <b>1-7</b> Math Practices and Problem Solving: Use Appropriate Tools, <b>2-1</b> 2 and 5 as Factors, <b>2-2</b> 9 as a Factor, <b>2-3</b> Apply Properties: Multiply by 0 and 1, <b>2-4</b> Multiply by 10, <b>2-5</b> Multiplication Facts: 0, 1, 2, 5, 9, and 10, <b>2-6</b> Math Practices and Problem Solving: Model with Math, <b>3-1</b> The Distributive Property, <b>3-2</b> Apply Properties: 3 as a Factor, <b>3-3</b> Apply Properties: 4 as a Factor, <b>3-4</b> Apply Properties: 6 and 7 as Factors, <b>3-5</b> Apply Properties: 8 as a Factor, <b>3-6</b> Practice Multiplication Facts, <b>3-7</b> The Associative Property: Multiply with 3 Factors, <b>3-8</b> Math Practices and Problem Solving: Repeated Reasoning, <b>4-1</b> Relate Multiplication and Division, <b>4-2</b> Use Multiplication to Divide with 2, 3, 4, and 5, <b>4-3</b> Use Multiplication to Divide with 6 and 7, <b>4-4</b> Use Multiplication to Divide with 8 and 9, <b>4-6</b> Division Involving 0 and 1, <b>4-7</b> Practice Multiplication and Division Facts, <b>4-8</b> Solve Multiplication and Division Equations, <b>4-9</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>5-1</b> Patterns for Multiplication Facts, <b>5-2</b> Use a Multiplication Table, <b>5-3</b> Find Missing Numbers in a Multiplication Table, <b>5-4</b> Use Strategies to Multiply, <b>5-5</b> Solve Word Problems: Multiplication and Division Facts, <b>5-6</b> Write Math Stories: Multiplication, <b>5-7</b> Write Math Stories: Division, <b>5-8</b> Math Practices and Problem Solving: Look For and Use Structure, <b>6-5</b> Apply Properties: Area and the Distributive Property, <b>7-1</b> Read Picture Graphs and Bar Graphs,</p>

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(Continued) 3.1.2.4 Solve real-world and mathematical problems involving multiplication and division, including both "how many in each group" and "how many groups" division problems.	<b>7-2</b> Make Picture Graphs, <b>7-3</b> Make Bar Graphs, <b>7-4</b> Solve Word Problems Using Information in Graphs, <b>7-5</b> Math Practices and Problem Solving: Precision
3.1.2.5 Use strategies and algorithms based on knowledge of place value, equality and properties of addition and multiplication to multiply a two- or three-digit number by a one-digit number. Strategies may include mental strategies, partial products, the standard algorithm, and the commutative, associative, and distributive properties.	<b>SE/TE: 1-4</b> The Commutative Property, <b>1-5</b> Division as Sharing, <b>1-6</b> Division as Repeated Subtraction, <b>1-7</b> Math Practices and Problem Solving: Use Appropriate Tools, <b>2-3</b> Apply Properties: Multiply by 0 and 1, <b>2-4</b> Multiply by 10, <b>2-5</b> Multiplication Facts: 0, 1, 2, 5, 9, and 10, <b>3-1</b> The Distributive Property, <b>3-2</b> Apply Properties: 3 as a Factor, <b>3-3</b> Apply Properties: 4 as a Factor, <b>3-4</b> Apply Properties: 6 and 7 as Factors, <b>3-5</b> Apply Properties: 8 as a Factor, <b>3-7</b> The Associative Property: Multiply with 3 Factors, <b>5-4</b> Use Strategies to Multiply, <b>5-8</b> Math Practices and Problem Solving: Look For and Use Structure, <b>6-5</b> Apply Properties: Area and the Distributive Property, <b>8-1</b> Addition Properties, <b>10-2</b> Use Properties to Multiply, <b>10-3</b> Multiply by Multiples of 10, <b>10-4</b> Math Practices and Problem Solving: Look For and Use Structure
Understand meanings and uses of fractions in real-world and mathematical situations.	
3.1.3.1 Read and write fractions with words and symbols. Recognize that fractions can be used to represent parts of a whole, parts of a set, points on a number line, or distances on a number line.	<b>SE/TE: 12-1</b> Divide Regions into Equal Parts, <b>12-2</b> Fractions and Regions, <b>12-3</b> Understand the Whole, <b>12-4</b> Number Line: Fractions Less Than 1, <b>12-5</b> Number Line: Fractions Greater Than 1, <b>12-8</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>13-1</b> Equivalent Fractions: Use Models, <b>13-2</b> Equivalent Fractions: Use the Number Line, <b>13-3</b> Use Models to Compare Fractions: Same Denominator, <b>13-4</b> Use Models to Compare Fractions: Same Numerator, <b>13-5</b> Compare Fractions: Use Benchmarks, <b>13-6</b> Compare Fractions: Use the Number Line, <b>13-7</b> Whole Numbers and Fractions, <b>13-8</b> Math Practices and Problem Solving: Construct Arguments

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3.1.3.2 Understand that the size of a fractional part is relative to the size of the whole.	<b>SE/TE: 12-3</b> Understand the Whole, <b>13-1</b> Equivalent Fractions: Use Models, <b>13-2</b> Equivalent Fractions: Use the Number Line, <b>13-3</b> Use Models to Compare Fractions: Same Denominator, <b>13-4</b> Use Models to Compare Fractions: Same Numerator, <b>13-5</b> Compare Fractions: Use Benchmarks, <b>13-6</b> Compare Fractions: Use the Number Line, <b>13-7</b> Whole Numbers and Fractions, <b>13-8</b> Math Practices and Problem Solving: Construct Arguments
3.1.3.3 Order and compare unit fractions and fractions with like denominators by using models and an understanding of the concept of numerator and denominator.	<b>SE/TE: 12-4</b> Number Line: Fractions Less Than 1, <b>12-5</b> Number Line: Fractions Greater Than 1, <b>12-8</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>13-1</b> Equivalent Fractions: Use Models, <b>13-2</b> Equivalent Fractions: Use the Number Line, <b>13-3</b> Use Models to Compare Fractions: Same Denominator, <b>13-4</b> Use Models to Compare Fractions: Same Numerator, <b>13-5</b> Compare Fractions: Use Benchmarks, <b>13-6</b> Compare Fractions: Use the Number Line, <b>13-7</b> Whole Numbers and Fractions, <b>13-8</b> Math Practices and Problem Solving: Construct Arguments
Algebra	
Use single-operation input-output rules to represent patterns and relationships and to solve real-world and mathematical problems.	
3.2.1.1 Create, describe, and apply single-operation input-output rules involving addition, subtraction and multiplication to solve problems in various contexts.	<b>MN-5</b> Input and Output Rules
Use number sentences involving multiplication and division basic facts and unknowns to represent and solve real-world and mathematical problems; create real-world situations corresponding to number sentences.	
3.2.2.1 Understand how to interpret number sentences involving multiplication and division basic facts and unknowns. Create real-world situations to represent number sentences.	<b>SE/TE: 2-1</b> 2 and 5 as Factors, <b>2-2</b> 9 as a Factor, <b>2-3</b> Apply Properties: Multiply by 0 and 1, <b>2-4</b> Multiply by 10, <b>2-5</b> Multiplication Facts: 0, 1, 2, 5, 9, and 10, <b>2-6</b> Math Practices and Problem Solving: Model with Math, <b>3-1</b> The Distributive Property, <b>3-2</b> Apply Properties: 3 as a Factor, <b>3-3</b> Apply Properties: 4 as a Factor, <b>3-4</b> Apply Properties: 6 and 7 as Factors, <b>3-5</b> Apply Properties: 8 as a Factor, <b>3-6</b> Practice Multiplication Facts,

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<b>Minnesota Academic Standards Mathematics Grade 3, 2007 version</b>	<b>enVisionmath2.0, © 2017 Grade 3 Lesson</b>
<p>(Continued) 3.2.2.1 Understand how to interpret number sentences involving multiplication and division basic facts and unknowns. Create real-world situations to represent number sentences.</p>	<p><b>3-7</b> The Associative Property: Multiply with 3 Factors, <b>3-8</b> Math Practices and Problem Solving: Repeated Reasoning, <b>4-1</b> Relate Multiplication and Division, <b>4-2</b> Use Multiplication to Divide with 2, 3, 4, and 5, <b>4-3</b> Use Multiplication to Divide with 6 and 7, <b>4-4</b> Use Multiplication to Divide with 8 and 9, <b>4-6</b> Division Involving 0 and 1, <b>4-7</b> Practice Multiplication and Division Facts, <b>4-8</b> Solve Multiplication and Division Equations, <b>4-9</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>5-1</b> Patterns for Multiplication Facts, <b>5-2</b> Use a Multiplication Table, <b>5-3</b> Find Missing Numbers in a Multiplication Table, <b>5-4</b> Use Strategies to Multiply, <b>5-5</b> Solve Word Problems: Multiplication and Division Facts, <b>5-6</b> Write Math Stories: Multiplication, <b>5-7</b> Write Math Stories: Division</p>
<p>3.2.2.2 Use multiplication and division basic facts to represent a given problem situation using a number sentence. Use number sense and multiplication and division basic facts to find values for the unknowns that make the number sentences true.</p>	<p><b>SE/TE: 1-1</b> Multiplication as Repeated Addition, <b>1-2</b> Multiplication on the Number Line, <b>1-3</b> Arrays and Multiplication, <b>1-4</b> The Commutative Property, <b>1-5</b> Division as Sharing, <b>1-6</b> Division as Repeated Subtraction, <b>1-7</b> Math Practices and Problem Solving: Use Appropriate Tools, <b>2-1</b> 2 and 5 as Factors, <b>2-2</b> 9 as a Factor, <b>2-3</b> Apply Properties: Multiply by 0 and 1, <b>2-4</b> Multiply by 10, <b>2-5</b> Multiplication Facts: 0, 1, 2, 5, 9, and 10, <b>2-6</b> Math Practices and Problem Solving: Model with Math, <b>3-1</b> The Distributive Property, <b>3-2</b> Apply Properties: 3 as a Factor, <b>3-3</b> Apply Properties: 4 as a Factor, <b>3-4</b> Apply Properties: 6 and 7 as Factors, <b>3-5</b> Apply Properties: 8 as a Factor, <b>3-6</b> Practice Multiplication Facts, <b>3-7</b> The Associative Property: Multiply with 3 Factors, <b>3-8</b> Math Practices and Problem Solving: Repeated Reasoning, <b>4-1</b> Relate Multiplication and Division, <b>4-2</b> Use Multiplication to Divide with 2, 3, 4, and 5, <b>4-3</b> Use Multiplication to Divide with 6 and 7, <b>4-4</b> Use Multiplication to Divide with 8 and 9, <b>4-6</b> Division Involving 0 and 1, <b>4-7</b> Practice Multiplication and Division Facts, <b>4-8</b> Solve Multiplication and Division Equations, <b>4-9</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>5-1</b> Patterns for Multiplication Facts,</p>

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<b>Minnesota Academic Standards Mathematics Grade 3, 2007 version</b>	<b>enVisionmath2.0, © 2017 Grade 3 Lesson</b>
(Continued) 3.2.2.2 Use multiplication and division basic facts to represent a given problem situation using a number sentence. Use number sense and multiplication and division basic facts to find values for the unknowns that make the number sentences true.	<b>5-2</b> Use a Multiplication Table, <b>5-3</b> Find Missing Numbers in a Multiplication Table, <b>5-4</b> Use Strategies to Multiply, <b>5-5</b> Solve Word Problems: Multiplication and Division Facts, <b>5-6</b> Write Math Stories: Multiplication, <b>5-7</b> Write Math Stories: Division
Geometry & Measurement	
Use geometric attributes to describe and create shapes in various contexts.	
3.3.1.1 Identify parallel and perpendicular lines in various contexts, and use them to describe and create geometric shapes, such as right triangles, rectangles, parallelograms and trapezoids.	<b>SE/TE: 15-1</b> Describe Quadrilaterals, <b>15-2</b> Classify Shapes, <b>15-3</b> Analyze and Compare Quadrilaterals, <b>15-4</b> Math Practices and Problem Solving: Precision
3.3.1.2 Sketch polygons with a given number of sides or vertices (corners), such as pentagons, hexagons and octagons.	<b>SE/TE: 15-1</b> Describe Quadrilaterals, <b>15-2</b> Classify Shapes, <b>15-3</b> Analyze and Compare Quadrilaterals, <b>15-4</b> Math Practices and Problem Solving: Precision
Understand perimeter as a measurable attribute of real-world and mathematical objects. Use various tools to measure distances.	
3.3.2.1 Use half units when measuring distances.	<b>SE/TE: 12-6</b> Line Plots and Length, <b>12-7</b> More Line Plots and Length
3.3.2.2 Find the perimeter of a polygon by adding the lengths of the sides.	<b>SE/TE: 16-1</b> Understanding Perimeter, <b>16-2</b> Perimeter of Common Shapes, <b>16-3</b> Perimeter and Unknown Side Lengths, <b>16-4</b> Same Perimeter, Different Area, <b>16-5</b> Same Area, Different Perimeter, <b>16-6</b> Math Practices and Problem Solving: Reasoning
3.3.2.3 Measure distances around objects.	<b>SE/TE: 16-1</b> Understanding Perimeter, <b>16-2</b> Perimeter of Common Shapes, <b>16-3</b> Perimeter and Unknown Side Lengths, <b>16-4</b> Same Perimeter, Different Area, <b>16-5</b> Same Area, Different Perimeter, <b>16-6</b> Math Practices and Problem Solving: Reasoning

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Use time, money and temperature to solve real-world and mathematical problems.	
3.3.3.1 Tell time to the minute, using digital and analog clocks. Determine elapsed time to the minute.	<b>SE/TE: 14-1</b> Time to the Minute, <b>14-2</b> Units of Time: Measure Elapsed Time, <b>14-3</b> Units of Time: Solve Word Problems, <b>14-9</b> Math Practices and Problem Solving: Reasoning
3.3.3.2 Know relationships among units of time.	<b>SE/TE: 14-3</b> Units of Time: Solve Word Problems, <b>14-9</b> Math Practices and Problem Solving: Reasoning  <b>MN-6</b> Units of Time
3.3.3.3 Make change up to one dollar in several different ways, including with as few coins as possible.	<b>MN-7</b> Make Change
3.3.3.4 Use an analog thermometer to determine temperature to the nearest degree in Fahrenheit and Celsius.	<b>MN-8</b> Temperature
Data Analysis	
Collect, organize, display, and interpret data. Use labels and a variety of scales and units in displays.	
3.4.1.1 Collect, display and interpret data using frequency tables, bar graphs, picture graphs and number line plots having a variety of scales. Use appropriate titles, labels and units.	<b>SE/TE: 7-1</b> Read Picture Graphs and Bar Graphs, <b>7-2</b> Make Picture Graphs, <b>7-3</b> Make Bar Graphs, <b>7-4</b> Solve Word Problems Using Information in Graphs, <b>7-5</b> Math Practices and Problem Solving: Precision, <b>12-6</b> Line Plots and Length, <b>12-7</b> More Line Plots and Length

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Number & Operation	
Demonstrate mastery of multiplication and division basic facts; multiply multi-digit numbers; solve real-world and mathematical problems using arithmetic.	
4.1.1.1 Demonstrate fluency with multiplication and division facts.	<b>MN-1</b> Fluency with Multiplication Facts <b>MN-2</b> Fluency with Division Facts
4.1.1.2 Use an understanding of place value to multiply a number by 10, 100 and 1000.	<b>SE/TE: 1-1</b> Numbers Through One Million, <b>1-2</b> Place Value Relationships, <b>1-5</b> Math Practices and Problem Solving: Construct Arguments, <b>3-1</b> Mental Math: Multiply by Multiples of 10, 100, and 1,000, <b>4-1</b> Mental Math: Multiply Multiples of 10, <b>4-2</b> Use Models to Multiply 2-Digit Numbers by Multiples of 10, <b>4-8</b> Multiply 2-Digit Numbers by Multiples of 10
4.1.1.3 Multiply multi-digit numbers, using efficient and generalizable procedures, based on knowledge of place value, including standard algorithms.	<b>SE/TE: 3-4</b> Mental Math Strategies for Multiplication, <b>3-5</b> Arrays and Partial Products, <b>3-6</b> Use Partial Products to Multiply by 1-Digit Numbers, <b>3-7</b> Multiply 2- and 3-Digit Numbers by 1-Digit Numbers, <b>3-8</b> Multiply 4-Digit by 1-Digit Numbers, <b>3-9</b> Multiply by 1-Digit Numbers, <b>3-10</b> Math Practices and Problem Solving: Model with Math, <b>4-2</b> Use Models to Multiply 2-Digit Numbers by Multiples of 10, <b>4-5</b> Arrays and Partial Products, <b>4-7</b> Use Partial Products to Multiply by 2-Digit Numbers, <b>4-8</b> Multiply 2-Digit Numbers by Multiples of 10, <b>4-9</b> Multiply 2-Digit by 2-Digit Numbers, <b>4-10</b> Continue to Multiply by 2-Digit Numbers, <b>4-11</b> Math Practices and Problem Solving: Make Sense and Persevere
4.1.1.4 Estimate products and quotients of multi-digit whole numbers by using rounding, benchmarks and place value to assess the reasonableness of results.	<b>SE/TE: 1-4</b> Round Whole Numbers, <b>3-2</b> Mental Math: Round to Estimate Products, <b>3-4</b> Mental Math Strategies for Multiplication, <b>3-5</b> Arrays and Partial Products, <b>3-6</b> Use Partial Products to Multiply by 1-Digit Numbers, <b>3-7</b> Multiply 2- and 3-Digit Numbers by 1-Digit Numbers, <b>3-8</b> Multiply 4-Digit by 1-Digit Numbers, <b>3-9</b> Multiply by 1-Digit Numbers, <b>3-10</b> Math Practices and Problem Solving: Model with Math, <b>4-3</b> Estimate: Use Rounding, <b>4-4</b> Estimate: Use Compatible Numbers, <b>4-11</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>5-2</b> Mental Math: Estimate Quotients, <b>5-3</b> Mental Math: Estimate Quotients for Greater Dividends

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4.1.1.5 Solve multi-step real-world and mathematical problems requiring the use of addition, subtraction and multiplication of multi-digit whole numbers. Use various strategies, including the relationship between operations, the use of technology, and the context of the problem to assess the reasonableness of results.	<b>SE/TE: 2-1</b> Mental Math: Find Sums and Differences, <b>2-2</b> Mental Math: Estimate Sums and Differences, <b>2-3</b> Add Whole Numbers, <b>2-4</b> Subtract Whole Numbers, <b>2-5</b> Subtract Across Zeros, <b>2-6</b> Mat Practices and Problem Solving: Reasoning, <b>4-11</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>6-3</b> Solve Multi-Step Problems, <b>6-4</b> Solve More Multi-Step Problems, <b>6-5</b> Math Practices and Problem Solving: Make Sense and Persevere
4.1.1.6 Use strategies and algorithms based on knowledge of place value, equality and properties of operations to divide multi-digit whole numbers by one- or two-digit numbers. Strategies may include mental strategies, partial quotients, the commutative, associative, and distributive properties and repeated subtraction.	<b>SE/TE: 3-3</b> The Distributive Property, <b>4-6</b> Multiply Using the Distributive Property, <b>5-1</b> Mental Math: Find Quotients, <b>5-4</b> Interpret Remainders, <b>5-5</b> Division as Sharing, <b>5-6</b> Use Partial Quotients to Divide, <b>5-7</b> Use Partial Quotients to Divide: Greater Dividends, <b>5-8</b> Divide with 1-Digit Numbers, <b>5-9</b> Continue to Divide with 1-Digit Numbers, <b>5-10</b> Math Practices and Problem Solving: Model with Math
Represent and compare fractions and decimals in real-world and mathematical situations; use place value to understand how decimals represent quantities.	
4.1.2.1 Represent equivalent fractions using fraction models such as parts of a set, fraction circles, fraction strips, number lines and other manipulatives. Use the models to determine equivalent fractions.	<b>SE/TE: 8-1</b> Equivalent Fractions: Area Models, <b>8-2</b> Equivalent Fractions: Number Lines, <b>8-3</b> Generate Equivalent Fractions: Multiplication, <b>8-4</b> Generate Equivalent Fractions: Division, <b>8-5</b> Use Benchmarks to Compare Fractions, <b>8-6</b> Compare Fractions, <b>8-7</b> Math Practices and Problem Solving: Construct Arguments, <b>10-6</b> Math Practices and Problem Solving: Model with Math
4.1.2.2 Locate fractions on a number line. Use models to order and compare whole numbers and fractions, including mixed numbers and improper fractions.	<b>SE/TE: 8-5</b> Use Benchmarks to Compare Fractions, <b>8-6</b> Compare Fractions, <b>8-7</b> Math Practices and Problem Solving: Construct Arguments, <b>10-1</b> Fractions as Multiples of Unit Fractions: Use Models, <b>10-2</b> Multiply a Fraction by a Whole Number: Use Models, <b>12-2</b> Fractions and Decimals on the Number Line



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4.1.2.3 Use fraction models to add and subtract fractions with like denominators in real-world and mathematical situations. Develop a rule for addition and subtraction of fractions with like denominators.	<b>SE/TE: 9-1</b> Model Addition of Fractions, 9-2 Decompose Fractions, <b>9-3</b> Add Fractions with Like Denominators, <b>9-4</b> Model Subtraction of Fractions, <b>9-5</b> Subtract Fractions with Like Denominators, <b>9-6</b> Add and Subtract Fractions with Like Denominators, <b>9-7</b> Estimate Fraction Sums and Differences, <b>9-8</b> Model Addition and Subtraction of Mixed Numbers, <b>9-9</b> Add Mixed Numbers, <b>9-10</b> Subtract Mixed Numbers, <b>9-11</b> Math Practices and Problem Solving: Model with Math, <b>12-4</b> Add Fractions with Denominators of 10 and 100
4.1.2.4 Read and write decimals with words and symbols; use place value to describe decimals in terms of thousands, hundreds, tens, ones, tenths, hundredths and thousandths.	<b>SE/TE: 12-1</b> Fractions and Decimals, <b>12-2</b> Fractions and Decimals on the Number Line, <b>12-3</b> Compare Decimals, <b>12-4</b> Add Fractions with Denominators of 10 and 100, <b>12-5</b> Solve Word Problems Involving Money, <b>12-6</b> Math Practices and Problem Solving: Look For and Use Structure
4.1.2.5 Compare and order decimals and whole numbers using place value, a number line and models such as grids and base 10 blocks.	<b>SE/TE: 12-2</b> Fractions and Decimals on the Number Line, <b>12-3</b> Compare Decimals, <b>12-6</b> Math Practices and Problem Solving: Look For and Use Structure
4.1.2.6 Read and write tenths and hundredths in decimal and fraction notations using words and symbols; know the fraction and decimal equivalents for halves and fourths.	<b>SE/TE: 12-1</b> Fractions and Decimals, <b>12-2</b> Fractions and Decimals on the Number Line, <b>12-6</b> Math Practices and Problem Solving: Look For and Use Structure
4.1.2.7 Round decimals to the nearest tenth.	<b>SE/TE: 12-6</b> Math Practices and Problem Solving: Look For and Use Structure  <b>MN-5</b> Round Decimals to the Nearest Tenth
Algebra	
Use input-output rules, tables and charts to represent patterns and relationships and to solve real-world and mathematical problems.	
4.2.1.1 Create and use input-output rules involving addition, subtraction, multiplication and division to solve problems in various contexts. Record the inputs and outputs in a chart or table.	<b>SE/TE: 14-2</b> Patterns: Number Rules, <b>14-4</b> Math Practices and Problem Solving: Look For and Use Structure

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Use number sentences involving multiplication, division and unknowns to represent and solve real-world and mathematical problems; create real-world situations corresponding to number sentences.	
4.2.2.1 Understand how to interpret number sentences involving multiplication, division and unknowns. Use real-world situations involving multiplication or division to represent number sentences.	<b>SE/TE: 4-11</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>5-10</b> Math Practices and Problem Solving: Model with Math, <b>6-1</b> Solve Comparison Situations, <b>6-2</b> Continue to Solve Comparison Situations, <b>6-3</b> Solve Multi-Step Problems, <b>6-4</b> Solve More Multi-Step Problems, <b>6-5</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>7-3</b> Math Practices and Problem Solving: Repeated Reasoning
4.2.2.2 Use multiplication, division and unknowns to represent a given problem situation using a number sentence. Use number sense, properties of multiplication, and the relationship between multiplication and division to find values for the unknowns that make the number sentences true.	<b>SE/TE: 4-11</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>5-10</b> Math Practices and Problem Solving: Model with Math, <b>6-1</b> Solve Comparison Situations, <b>6-2</b> Continue to Solve Comparison Situations, <b>6-3</b> Solve Multi-Step Problems, <b>6-4</b> Solve More Multi-Step Problems, <b>6-5</b> Math Practices and Problem Solving: Make Sense and Persevere, <b>7-1</b> Understand Factors, <b>7-2</b> Factors, <b>7-3</b> Math Practices and Problem Solving: Repeated Reasoning, <b>7-4</b> Prime and Composite Numbers, <b>7-5</b> Multiples
Geometry & Measurement	
Name, describe, classify and sketch polygons.	
4.3.1.1 Describe, classify and sketch triangles, including equilateral, right, obtuse and acute triangles. Recognize triangles in various contexts.	<b>SE/TE: 16-2</b> Classify Triangles, <b>16-6</b> Math Practices and Problem Solving: Critique Reasoning
4.3.1.2 Describe, classify and draw quadrilaterals, including squares, rectangles, trapezoids, rhombuses, parallelograms and kites. Recognize quadrilaterals in various contexts.	<b>SE/TE: 16-3</b> Classify Quadrilaterals, <b>16-6</b> Math Practices and Problem Solving: Critique Reasoning
Understand angle and area as measurable attributes of real-world and mathematical objects. Use various tools to measure angles and areas.	
4.3.2.1 Measure angles in geometric figures and real-world objects with a protractor or angle ruler.	<b>SE/TE: 15-1</b> Lines, Rays, and Angles, <b>15-2</b> Understand Angles and Unit Angles, <b>15-3</b> Measure with Unit Angles, <b>15-4</b> Measure and Draw Angles, <b>15-5</b> Add and Subtract Angle Measures, <b>15-6</b> Math Practices and Problem Solving: Use Appropriate Tools

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4.3.2.2 Compare angles according to size. Classify angles as acute, right and obtuse.	<b>SE/TE: 15-1</b> Lines, Rays, and Angles, <b>15-2</b> Understand Angles and Unit Angles, <b>15-3</b> Measure with Unit Angles, <b>15-4</b> Measure and Draw Angles, <b>15-5</b> Add and Subtract Angle Measures, <b>15-6</b> Math Practices and Problem Solving: Use Appropriate Tools
4.3.2.3 Understand that the area of a two-dimensional figure can be found by counting the total number of same size square units that cover a shape without gaps or overlaps. Justify why length and width are multiplied to find the area of a rectangle by breaking the rectangle into one unit by one unit squares and viewing these as grouped into rows and columns.	<b>SE/TE: 13-6</b> Solve Perimeter and Area Problems, <b>13-7</b> Math Practices and Problem Solving: Precision  <b>MN-6</b> Areas of Polygons
4.3.2.4 Find the areas of geometric figures and real-world objects that can be divided into rectangular shapes. Use square units to label area measurements.	<b>SE/TE: 13-6</b> Solve Perimeter and Area Problems, <b>13-7</b> Math Practices and Problem Solving: Precision
Use translations, reflections and rotations to establish congruency and understand symmetries.	
4.3.3.1 Apply translations (slides) to figures.	<b>MN-7</b> Congruent Figures and Motions
4.3.3.2 Apply reflections (flips) to figures by reflecting over vertical or horizontal lines and relate reflections to lines of symmetry.	<b>SE/TE: 16-4</b> Line Symmetry, <b>16-5</b> Draw Shapes with Line Symmetry, <b>16-6</b> Math Practices and Problem Solving  <b>MN-7</b> Congruent Figures and Motions
4.3.3.3 Apply rotations (turns) of 90° clockwise or counterclockwise.	<b>MN-7</b> Congruent Figures and Motions
4.3.3.4 Recognize that translations, reflections and rotations preserve congruency and use them to show that two figures are congruent.	<b>SE/TE: 16-4</b> Line Symmetry, <b>16-5</b> Draw Shapes with Line Symmetry, <b>16-6</b> Math Practices and Problem Solving  <b>MN-7</b> Congruent Figures and Motions

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Data Analysis	
Collect, organize, display and interpret data, including data collected over a period of time and data represented by fractions and decimals.	
4.4.1.1 Use tables, bar graphs, timelines and Venn diagrams to display data sets. The data may include fractions or decimals. Understand that spreadsheet tables and graphs can be used to display data.	<p><b>SE/TE: 10-5</b> Solve Time Problems, <b>11-1</b> Read Line Plots, <b>11-2</b> Make Line Plots, <b>11-3</b> Use Line Plots to Solve Problems, <b>11-4</b> Math Practices and Problem Solving: Critique Reasoning</p> <p><b>MN-3</b> Display Data in Timelines, <b>MN-4</b> Display Data in Venn Diagrams</p>

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Number & Operation	
Divide multi-digit numbers; solve real-world and mathematical problems using arithmetic.	
5.1.1.1 Divide multi-digit numbers, using efficient and generalizable procedures, based on knowledge of place value, including standard algorithms. Recognize that quotients can be represented in a variety of ways, including a whole number with a remainder, a fraction or mixed number, or a decimal.	<b>SE/TE: 5-1</b> Use Patterns and Mental Math to Divide, <b>5-2</b> Estimate Quotients with 2-Digit Divisors, <b>5-3</b> Use Models to Divide with 2-Digit Divisors, <b>5-4</b> Use Partial Quotients to Divide, <b>5-5</b> Divide by Multiples of 10, <b>5-6</b> Use Estimation to Place the First Digit of the Quotient, <b>5-7</b> Divide by 2-Digit Divisors, <b>5-8</b> Math Practices and Problem Solving
5.1.1.2 Consider the context in which a problem is situated to select the most useful form of the quotient for the solution and use the context to interpret the quotient appropriately.	<b>SE/TE: 5-1</b> Use Patterns and Mental Math to Divide, <b>5-2</b> Estimate Quotients with 2-Digit Divisors, <b>5-3</b> Use Models to Divide with 2-Digit Divisors, <b>5-4</b> Use Partial Quotients to Divide, <b>5-5</b> Divide by Multiples of 10, <b>5-6</b> Use Estimation to Place the First Digit of the Quotient, <b>5-7</b> Divide by 2-Digit Divisors, <b>5-8</b> Math Practices and Problem Solving
5.1.1.3 Estimate solutions to arithmetic problems in order to assess the reasonableness of results.	<b>SE/TE: 2-2</b> Estimate Sums and Differences, <b>3-2</b> Estimate Products, <b>4-2</b> Estimate the Product of a Decimal and a Whole Number, <b>5-2</b> Estimate Quotients with 2-Digit Divisors, <b>5-6</b> Use Estimation to Place the First Digit of the Quotient, <b>6-2</b> Estimate Decimal Quotients, <b>7-1</b> Estimate Sums and Differences of Fractions, <b>7-6</b> Estimate Sums and Differences of Mixed Numbers
5.1.1.4 Solve real-world and mathematical problems requiring addition, subtraction, multiplication and division of multi-digit whole numbers. Use various strategies, including the inverse relationships between operations, the use of technology, and the context of the problem to assess the reasonableness of results.	<b>SE/TE: 1-1</b> Patterns with Exponents and Powers of 10, <b>3-1</b> Multiply Greater Numbers by Powers of 10, <b>3-2</b> Estimate Products, <b>3-3</b> Multiply 3-Digit by 2-Digit Numbers, <b>3-4</b> Multiply Whole Numbers with Zeros, <b>3-5</b> Multiply Multi-Digit Numbers, <b>3-6</b> Solve Word Problems Using Multiplication, <b>3-7</b> Math Practices and Problem Solving: Critique Reasoning, <b>5-1</b> Use Patterns and Mental Math to Divide, <b>5-2</b> Estimate Quotients with 2-Digit Divisors, <b>5-3</b> Use Models to Divide with 2-Digit Divisors, <b>5-4</b> Use Partial Quotients to Divide, <b>5-5</b> Divide by Multiples of 10, <b>5-6</b> Use Estimation to Place the First Digit of the Quotient, <b>5-7</b> Divide by 2-Digit Divisors, <b>5-8</b> Math Practices and Problem Solving: Make Sense and Persevere

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Read, write, represent and compare fractions and decimals; recognize and write equivalent fractions; convert between fractions and decimals; use fractions and decimals in real-world and mathematical situations.	
5.1.2.1 Read and write decimals using place value to describe decimals in terms of groups from millionths to millions.	<b>SE/TE: 1-2</b> Understand Whole-Number Place Value, <b>1-3</b> Decimals to Thousandths, <b>1-4</b> Understand Decimal Place Value
5.1.2.2 Find 0.1 more than a number and 0.1 less than a number. Find 0.01 more than a number and 0.01 less than a number. Find 0.001 more than a number and 0.001 less than a number.	<b>SE/TE: 1-5</b> Compare Decimals, <b>1-7</b> Math Practices and Problem Solving: Look For and Use Structure, <b>1-3</b> Decimals to Thousandths, <b>1-4</b> Understand Decimal Place Value  <b>MN-1</b> Find 0.1, 0.01, or 0.001 More or Less Than a Number
5.1.2.3 Order fractions and decimals, including mixed numbers and improper fractions, and locate on a number line.	<b>SE/TE: 1-5</b> Compare Decimals, <b>1-7</b> Math Practices and Problem Solving: Look For and Use Structure
5.1.2.4 Recognize and generate equivalent decimals, fractions, mixed numbers and improper fractions in various contexts.	<b>MN-2</b> Fractions, Mixed Numbers, and Decimals
5.1.2.5 Round numbers to the nearest 0.1, 0.01 and 0.001.	<b>SE/TE: 1-6</b> Round Decimals, <b>1-7</b> Math Practices and Problem Solving: Look For and Use Structure
Add and subtract fractions, mixed numbers and decimals to solve real-world and mathematical problems.	
5.1.3.1 Add and subtract decimals and fractions, using efficient and generalizable procedures, including standard algorithms.	<b>SE/TE: 2-1</b> Mental Math, <b>2-2</b> Estimate Sums and Differences, <b>2-3</b> Use Models to Add and Subtract Decimals, <b>2-4</b> Add Decimals, <b>2-5</b> Subtract Decimals, <b>2-6</b> Add and Subtract Decimals, <b>2-7</b> Math Practices and Problem Solving, <b>7-1</b> Estimate Sums and Differences of Fractions, <b>7-2</b> Find Common Denominators, <b>7-3</b> Add Fractions with Unlike Denominators, <b>7-4</b> Subtract Fractions with Unlike Denominators, <b>7-5</b> Add and Subtract Fractions, <b>7-6</b> Estimate Sums and Differences of Mixed Numbers, <b>7-7</b> Use Models to Add Mixed Numbers, <b>7-8</b> Add Mixed Numbers, <b>7-9</b> Use Models to Subtract Mixed Numbers, <b>7-10</b> Subtract Mixed Numbers, <b>7-11</b> Add and Subtract Mixed Numbers, <b>7-12</b> Math Practices and Problem Solving: Model with Math

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<p>5.1.3.2 Model addition and subtraction of fractions and decimals using a variety of representations.</p>	<p><b>SE/TE: 2-1</b> Mental Math, <b>2-2</b> Estimate Sums and Differences, <b>2-3</b> Use Models to Add and Subtract Decimals, <b>2-4</b> Add Decimals, <b>2-5</b> Subtract Decimals, <b>2-6</b> Add and Subtract Decimals, <b>2-7</b> Math Practices and Problem Solving, <b>7-1</b> Estimate Sums and Differences of Fractions, <b>7-2</b> Find Common Denominators, <b>7-3</b> Add Fractions with Unlike Denominators, <b>7-4</b> Subtract Fractions with Unlike Denominators, <b>7-5</b> Add and Subtract Fractions, <b>7-6</b> Estimate Sums and Differences of Mixed Numbers, <b>7-7</b> Use Models to Add Mixed Numbers, <b>7-8</b> Add Mixed Numbers, <b>7-9</b> Use Models to Subtract Mixed Numbers, <b>7-10</b> Subtract Mixed Numbers, <b>7-11</b> Add and Subtract Mixed Numbers, <b>7-12</b> Math Practices and Problem Solving: Model with Math</p>
<p>5.1.3.3 Estimate sums and differences of decimals and fractions to assess the reasonableness of results.</p>	<p><b>SE/TE: 2-2</b> Estimate Sums and Differences, <b>7-1</b> Estimate Sums and Differences of Fractions, <b>7-6</b> Estimate Sums and Differences of Mixed Numbers</p>
<p>5.1.3.4 Solve real-world and mathematical problems requiring addition and subtraction of decimals, fractions and mixed numbers, including those involving measurement, geometry and data.</p>	<p><b>SE/TE: 2-1</b> Mental Math, <b>2-2</b> Estimate Sums and Differences, <b>2-3</b> Use Models to Add and Subtract Decimals, <b>2-4</b> Add Decimals, <b>2-5</b> Subtract Decimals, <b>2-6</b> Add and Subtract Decimals, <b>2-7</b> Math Practices and Problem Solving, <b>7-1</b> Estimate Sums and Differences of Fractions, <b>7-2</b> Find Common Denominators, <b>7-3</b> Add Fractions with Unlike Denominators, <b>7-4</b> Subtract Fractions with Unlike Denominators, <b>7-5</b> Add and Subtract Fractions, <b>7-6</b> Estimate Sums and Differences of Mixed Numbers, <b>7-7</b> Use Models to Add Mixed Numbers, <b>7-8</b> Add Mixed Numbers, <b>7-9</b> Use Models to Subtract Mixed Numbers, <b>7-10</b> Subtract Mixed Numbers, <b>7-11</b> Add and Subtract Mixed Numbers, <b>7-12</b> Math Practices and Problem Solving: Model with Math</p>

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Algebra	
Recognize and represent patterns of change; use patterns, tables, graphs and rules to solve real-world and mathematical problems.	
5.2.1.1 Create and use rules, tables, spreadsheets and graphs to describe patterns of change and solve problems.	<b>SE/TE: 15-1</b> Numerical Patterns, <b>15-2</b> More Numerical Patterns, <b>15-3</b> Analyze and Graph Relationships, <b>15-4</b> Math Practices and Problem Solving: Make Sense and Persevere
5.2.1.2 Use a rule or table to represent ordered pairs of positive integers and graph these ordered pairs on a coordinate system.	<b>SE/TE: 14-1</b> The Coordinate System, <b>14-2</b> Graph Data Using Ordered Pairs, <b>14-3</b> Solve Problems Using Ordered Pairs, <b>14-4</b> Math Practices and Problem Solving: Reasoning, <b>15-3</b> Analyze and Graph Relationships, <b>15-4</b> Math Practices and Problem Solving: Make Sense and Persevere
Use properties of arithmetic to generate equivalent numerical expressions and evaluate expressions involving whole numbers.	
5.2.2.1 Apply the commutative, associative and distributive properties and order of operations to generate equivalent numerical expressions and to solve problems involving whole numbers.	<b>SE/TE: 13-1</b> Order of Operations, <b>13-2</b> Evaluate Expressions, <b>13-3</b> Write Numerical Expressions, <b>13-4</b> Interpret Numerical Expressions, <b>13-5</b> Math Practices and Problem Solving: Reasoning
Understand and interpret equations and inequalities involving variables and whole numbers, and use them to represent and solve real-world and mathematical problems.	
5.2.3.1 Determine whether an equation or inequality involving a variable is true or false for a given value of the variable.	<b>MN-11</b> Understand Equations and Solutions <b>MN-12</b> Understand Inequalities with Variables
5.2.3.2 Represent real-world situations using equations and inequalities involving variables. Create real-world situations corresponding to equations and inequalities.	<b>SE/TE: 13-4</b> Interpret Numerical Expressions, <b>13-5</b> Math Practices and Problem Solving: Reasoning  <b>MN-11</b> Understand Equations and Solutions <b>MN-12</b> Understand Inequalities with Variables
5.2.3.3 Evaluate expressions and solve equations involving variables when values for the variables are given.	<b>SE/TE: 13-2</b> Evaluate Expressions, <b>13-3</b> Write Numerical Expressions, <b>13-4</b> Interpret Numerical Expressions, <b>13-5</b> Math Practices and Problem Solving: Reasoning  <b>MN-9</b> Variables and Expressions <b>MN-10</b> Variables, Expressions, and Equations



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Geometry & Measurement	
Describe, classify, and draw representations of three-dimensional figures.	
5.3.1.1 Describe and classify three-dimensional figures including cubes, prisms and pyramids by the number of edges, faces or vertices as well as the types of faces.	<b>MN-3</b> Describe and Classify 3-D Figures
5.3.1.2 Recognize and draw a net for a three-dimensional figure.	<b>MN-4</b> Solid Figures and Nets
Determine the area of triangles and quadrilaterals; determine the surface area and volume of rectangular prisms in various contexts.	
5.3.2.1 Develop and use formulas to determine the area of triangles, parallelograms and figures that can be decomposed into triangles.	<b>MN-13</b> Areas of Parallelograms <b>MN-14</b> Areas of Triangles
5.3.2.2 Use various tools and strategies to measure the volume and surface area of objects that are shaped like rectangular prisms.	<b>SE/TE: 10-1</b> Model Volume, <b>10-2</b> Develop a Volume Formula, <b>10-3</b> Volume of Prisms, <b>10-3</b> Volume of Prisms, <b>10-4</b> Combine Volumes of Prisms, <b>10-5</b> Solve Word Problems Using Volume, <b>10-6</b> Math Practices and Problem Solving: Use Appropriate Tools
5.3.2.3 Understand that the volume of a three-dimensional figure can be found by counting the total number of same-size cubic units that fill a shape without gaps or overlaps. Use cubic units to label volume measurements.	<b>SE/TE: 10-1</b> Model Volume, <b>10-2</b> Develop a Volume Formula, <b>10-3</b> Volume of Prisms, <b>10-3</b> Volume of Prisms, <b>10-4</b> Combine Volumes of Prisms, <b>10-5</b> Solve Word Problems Using Volume, <b>10-6</b> Math Practices and Problem Solving: Use Appropriate Tools
5.3.2.4 Develop and use the formulas $V = lwh$ and $V = Bh$ to determine the volume of rectangular prisms. Justify why base area $B$ and height $h$ are multiplied to find the volume of a rectangular prism by breaking the prism into layers of unit cubes.	<b>SE/TE: 10-1</b> Model Volume, <b>10-2</b> Develop a Volume Formula, <b>10-3</b> Volume of Prisms, <b>10-3</b> Volume of Prisms, <b>10-4</b> Combine Volumes of Prisms, <b>10-5</b> Solve Word Problems Using Volume, <b>10-6</b> Math Practices and Problem Solving: Use Appropriate Tools

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Data Analysis	
Display and interpret data; determine mean, median and range.	
5.4.1.1 Know and use the definitions of the mean, median and range of a set of data. Know how to use a spreadsheet to find the mean, median and range of a data set. Understand that the mean is a "leveling out" of data.	<b>MN-6</b> Understand Mean <b>MN-7</b> Median, Mode, and Range
5.4.1.2 Create and analyze double-bar graphs and line graphs by applying understanding of whole numbers, fractions and decimals. Know how to create spreadsheet tables and graphs to display data.	<b>SE/TE: 12-1</b> Analyze Line Plots, <b>12-2</b> Make Line Plots, <b>12-4</b> Math Practices and Problem Solving: Critique Reasoning  <b>MN-5</b> Display and Interpret Data: Double Bar Graphs <b>MN-8</b> Display and Interpret Data: Double-Line Graphs