



## Grade 1 Support

This guidance identifies key *Investigations* content from roughly the last third of a grade, which may not have been covered sufficiently due to the disruption at the end of the 2019–2020 school year.

To help cover this unfinished learning, the charts provide suggestions for where to include specific *Investigations* resources (Classroom Routines/Ten-Minute Math; Games; Math Words and Ideas; Expanded Differentiation Activities) as part of work in the next grade this school year, 2020–2021.

Grade K Units 6, 7, and 8 may not have been covered in Spring, 2020. Resources from **four investigations** in Grade K are recommended to include in the Grade 1 units below, as needed.

Grade 1 Unit	Key Grade K Content that Supports Grade 1	Resources to teach Key Grade K Content at Grade 1
<p><b>Unit 1</b> <i>Building Numbers and Solving Story Problems</i></p> <p>Number and Operations: Addition, Subtraction, and the Number System 1</p>	<p><b>Grade K Unit 6 Investigation 1</b></p> <p><i>Counting Larger Quantities</i></p> <p>Work with the number line and opportunities for counting up to 20 objects provides a foundation for refining counting strategies and counting up to 30 objects in Grade 1 Unit 1.</p>	<p><b>Grade K Unit 6 Investigation 1</b></p> <p>Game</p> <ul style="list-style-type: none"> <li>• <i>Collect 20 Together</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Counting Jar</i></li> <li>• <i>Numbers 0 to 30</i></li> </ul>



Grade 1 Unit	Key Grade K Content that Supports Grade 1	Resources to teach Key Grade K Content at Grade 1
<p><b>Unit 1</b> <b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>1. Understanding and extending the counting Sequence</li> <li>2. Understanding, representing, and solving problems involving addition</li> <li>3. Understanding, representing, and solving problems involving subtraction</li> <li>4. Describing, identifying, and comparing attributes of 2-D shapes</li> </ol>	<p><b>Grade K Unit 8 Investigation 1</b> <i>Subtraction and Fluency Within 5</i></p> <p>The work on addition and subtraction, including story problems and a focus on fluency within 5, supports the development of addition and subtraction strategies in Grade 1 Unit 1.</p>	<p><b>Grade K Unit 8 Investigation 1</b></p> <p>Classroom Routines</p> <ul style="list-style-type: none"> <li>• <i>Story Problems</i></li> </ul> <p>Games</p> <ul style="list-style-type: none"> <li>• <i>Build and Remove</i></li> <li>• <i>Race to the Sun</i></li> <li>• <i>Fill the Treasure Chest</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Notation for Subtraction</i></li> <li>• <i>Solving Story Problems</i></li> <li>• <i>Notation for Addition</i></li> </ul>
	<p><b>Grade K Unit 8 Investigation 2</b> <i>Complements of 10 and the Teen Numbers</i></p> <p>Kindergarten work involving complements of 10 and the teen numbers supports students in representing numbers to 20 in Grade 1 Unit 1, and in beginning to see the teen numbers as one ten and some number of ones (rather than as ten ones and some number of ones).</p>	<p><b>Grade K Unit 8 Investigation 2</b></p> <p>Games</p> <ul style="list-style-type: none"> <li>• <i>Build It: Teen Numbers</i></li> <li>• <i>Race to the Top: Ten Frames</i></li> <li>• <i>Build It, Then Race to the Top</i></li> <li>• <i>Race to the Top: Teen Numbers 2</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Making 10</i></li> <li>• <i>Teen Numbers</i></li> </ul>

# INVESTIGATIONS

IN NUMBER, DATA, AND SPACE®



<b>Grade 1 Unit</b>	<b>Key Grade K Content that Supports Grade 1</b>	<b>Resources to teach Key Grade K Content at Grade 1</b>
<p><b>Unit 3</b> <i>How Many of Each? How Many in All?</i></p> <p>Number and Operations: Addition, Subtraction, and the Number System 2</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"><li>1. Understanding, representing, and solving problems involving addition and subtraction</li><li>2. Understanding equivalence</li><li>3. Understanding and extending the counting sequence</li><li>4. Understanding place value</li></ol>	<p><b>Grade K Unit 6 Investigation 3</b> <i>How Many of Each?</i></p> <p>The <i>How many of each?</i> problems introduced in Kindergarten, as well as work decomposing numbers in different ways, supports development of similar problems in Grade 1 Unit 3.</p>	<p><b>Grade K Unit 6 Investigation 3</b></p> <p>Games</p> <ul style="list-style-type: none"><li>• <i>Toss the Chips</i></li><li>• <i>Racing Bears</i></li><li>• <i>Total of Six</i></li></ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"><li>• <i>A Story Problem About How Many of Each?</i></li></ul>

# INVESTIGATIONS

IN NUMBER, DATA, AND SPACE®



<b>Grade 1 Unit</b>	<b>Key Grade K Content that Supports Grade 1</b>	<b>Resources to teach Key Grade K Content at Grade 1</b>
<p><b>Unit 4</b> <i>Fish Lengths and Fraction Rugs</i></p> <p>Measurement: Measurement and Fractions</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"><li>1. Understanding length</li><li>2. Using linear units</li><li>3. Understanding, representing, and solving problems involving addition and subtraction</li><li>4. Understanding time</li><li>5. Understanding halves and fourths</li></ol>	<p><b>Grade K Unit 6 Investigation 1</b> <i>Counting Larger Quantities</i></p> <p>Kindergarten work with length supports length comparison and measuring in a quantitative way, which is further developed in Grade 1 Unit 4.</p>	<p><b>Grade K Unit 6 Investigation 1</b></p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"><li>• <i>Shorter Than or Longer Than</i></li></ul>

## Grade 2 Support

This guidance identifies key *Investigations* content from roughly the last third of a grade, which may not have been covered sufficiently due to the disruption at the end of the 2019–2020 school year.

To help cover this unfinished learning, the charts provide suggestions for where to include specific *Investigations* resources (Classroom Routines/Ten-Minute Math; Games; Math Words and Ideas; Expanded Differentiation Activities) as part of work in the next grade this school year, 2020–2021.

Grade 1 units 7 and 8 may not have been covered in Spring, 2020. Resources from **one investigation** in Grade 1 are recommended to include in the Grade 2 units below, as needed.

Grade 2 Unit	Key Grade 1 Content that Supports Grade 2	Resources to teach Key Grade 1 Content at Grade 2
<p><b>Unit 1</b> <i>Coins, Number Strings, and Story Problems</i></p> <p>Number and Operations: Addition, Subtraction, and the Number System 1</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>Understanding and extending the counting sequence</li> <li>Fluency within 20</li> <li>Understanding, representing, and solving problems involving addition and subtraction</li> <li>Understanding place value</li> </ol>	<p><b>Grade 1 Unit 7 Investigation 1</b></p> <p><i>Counting, Adding, and Subtracting Groups of 10</i></p> <p>Understanding and counting groups of 10 builds students’ knowledge of place value to support work at Grade 2 Unit 1.</p>	<p><b>Grade 1 Unit 7 Investigation 1</b></p> <p>Classroom Routines</p> <ul style="list-style-type: none"> <li><i>Start With/Get To: Counting Forward and Back by 10s</i></li> <li><i>Build It: How Many Fingers?</i></li> </ul> <p>Game</p> <ul style="list-style-type: none"> <li><i>Build It: How Many Tens?</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li><i>Counting by Groups</i></li> <li><i>How Many Tens?</i></li> </ul>



<p><b>Grade 2 Unit</b></p>	<p><b>Key Grade 1 Content that Supports Grade 2</b></p>	<p><b>Resources to teach Key Grade 1 Content at Grade 2</b></p>
<p><b>Unit 3</b> <i>How Many Stickers? How Many Cents?</i></p> <p>Number and Operations: Addition, Subtraction, and the Number System 2</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>1. Understanding place value</li> <li>2. Understanding, representing, and solving problems involving addition and subtraction</li> <li>3. Using place value to add and subtract</li> <li>4. Fluency within 20</li> <li>5. Understanding and extending the counting sequence</li> </ol>	<p><b>Grade 1 Unit 7 Investigation 1</b> <i>Counting, Adding, and Subtracting Groups of 10</i></p> <p>The work on adding and subtracting tens provides a foundation for computation in Grade 2 Unit 3.</p>	<p><b>Grade 1 Unit 7 Investigation 1</b></p> <p>Games</p> <ul style="list-style-type: none"> <li>• <i>How Many Now? with Cubes</i></li> <li>• <i>How Many Now? with Ten Frame Cards</i></li> <li>• <i>Plus or Minus 10</i></li> <li>• <i>Build It: Plus or Minus 10</i></li> <li>• <i>Race to the Top How Many Tens 1</i></li> <li>• <i>Race to the Top How Many Tens 2</i></li> <li>• <i>Adding Tens</i></li> <li>• <i>Adding within 100</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Tens and Ones</i></li> <li>• <i>Adding or Subtracting 10</i></li> <li>• <i>Adding a 2-Digit Number and a Multiple of 10</i></li> <li>• <i>Subtracting a Multiple of 10 from a Multiple of 10</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Intervention, Practice</i></li> </ul>

## Grade 3 Support

This guidance identifies key *Investigations* content from roughly the last third of a grade, which may not have been covered sufficiently due to the disruption at the end of the 2019–2020 school year.

To help cover this unfinished learning, the charts provide suggestions for where to include specific *Investigations* resources (Classroom Routines/Ten-Minute Math; Games; Math Words and Ideas; Expanded Differentiation Activities) as part of work in the next grade this school year, 2020–2021.

Grade 2 Units 6, 7, and 8 may not have been covered Spring, 2020. Resources from **six investigations** in Grade 2 are recommended to include in the Grade 3 units below, as needed.



Grade 3 Unit	Key Grade 2 Content that Supports Grade 3	Resources to teach Key Grade 2 Content at Grade 3
<p><b>Unit 1</b> <i>Understanding Equal Groups</i></p> <p>Number and Operations: Multiplication and Division 1</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>Understanding the meaning of multiplication</li> <li>Understanding and working with an array/area model of multiplication</li> <li>Learning the multiplication facts</li> </ol>	<p><b>Grade 2 Unit 7 Investigation 2</b> <i>Exploring Equal Groups</i></p> <p>Work with addition of equal groups, as represented using arrays and area models, and creating tables to display multiplicative relationships prepares students to work with similar models to deepen their understanding of multiplication in Grade 3 Unit 1.</p>	<p><b>Grade 2 Unit 7 Investigation 2</b></p> <p>Classroom Routines</p> <ul style="list-style-type: none"> <li><i>Today's Number: What Could It Be?</i></li> <li><i>Quick Images: Arrays</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li><i>Rectangular Arrays</i></li> <li><i>Equal Groups: Cube Buildings</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li><i>Intervention, Practice, Extension</i></li> </ul>
	<p><b>Grade 2 Units 6, 7, and 8</b></p> <p>Application and practice with place value, addition, and subtraction in Grade 2 Units 6, 7, and 8 support the work of Grade 3 Unit 3. In preparation for this, it is recommended that resources from Units 6 and 7 are included in Grade 3 Unit 1.</p> <p>Games from Grade 2 Units 3 and 5 may also be appropriate for some students.</p>	<p><b>Grade 2 Unit 6 Investigation 1</b></p> <p>Classroom Routines</p> <ul style="list-style-type: none"> <li><i>Today's Number: What Could It Be?</i></li> </ul> <p><b>Grade 2 Unit 6 Investigation 2</b></p> <p>Classroom Routines</p> <p><i>Today's Number: Where Is This Number?</i></p> <p><b>Grade 2 Unit 7 Investigations 1 &amp; 2</b></p> <p>Classroom Routines</p> <ul style="list-style-type: none"> <li><i>Today's Number: What Could It Be?</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li><i>Learning Addition Facts</i></li> </ul>





Grade 3 Unit	Key Grade 2 Content that Supports Grade 3	Resources to teach Key Grade 2 Content at Grade 3
<p><b>Unit 2</b> <i>Graphs and Line Plots</i></p> <p>Data: Modeling with Data</p> <p><b>Main Math Ideas</b></p> <p>1 Describing, summarizing, and comparing data</p> <p>2 Representing data</p> <p>3 Generating measurement data</p>	<p><b>Grade 2 Unit 6 Investigation 2</b></p> <p><i>Two Measurement Systems</i></p> <p>The introductory work with standard measuring tools, and generating measurement data, is built upon in Grade 3 Unit 2.</p>	<p><b>Grade 2 Unit 6 Investigation 2</b></p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>Standard Measurement</li> <li>Measurement Tools: Rulers</li> <li>Choosing a Measurement Tool</li> <li>Measuring With Units of Different Lengths</li> <li>Line Plots</li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li><i>Intervention, Practice, Extension</i></li> </ul>
	<p><b>Grade 2 Units 6, 7, and 8</b></p> <p>Application and practice with place value, addition and subtraction in Grade 2 Units 6, 7, and 8 support the work of Grade 3 Unit 3. In preparation for this, it is recommended that resources from Unit 8 are included in Grade 3 Unit 2.</p> <p>Games from Grade 2 Units 3 and 5 may also be appropriate for some students.</p>	<p><b>Grade 2 Unit 8 Investigation 1</b></p> <p>Classroom Routines</p> <ul style="list-style-type: none"> <li><i>Fact Fluency: Cover-Up</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li><i>Story Problems about Comparing: Smaller Unknown</i></li> <li><i>Learning Subtraction Facts</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li><i>Intervention, Practice, Extension</i></li> </ul> <p><b>Grade 2 Unit 8 Investigation 2</b></p> <p>Classroom Routines</p> <ul style="list-style-type: none"> <li><i>Fact Fluency: Cover-Up</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li><i>Representing Place Value: Hundreds, Tens, and Ones</i></li> </ul>



<p><b>Grade 3 Unit</b></p>	<p><b>Key Grade 2 Content that Supports Grade 3</b></p>	<p><b>Resources to teach Key Grade 2 Content at Grade 3</b></p>
<p><b>Unit 3</b> <i>Travel Stories and Collections</i></p> <p>Number and Operations: Addition, Subtraction, and the Number System 1</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>Using knowledge of place value to add and subtract</li> <li>Adding and subtracting fluently</li> <li>Understanding different types of addition and subtraction problems</li> </ol>	<p><b>Grade 2 Unit 8 Investigation 1</b></p> <p><i>Subtraction: Fluency within 100</i></p> <p>Developing efficient strategies for subtracting within 100 is foundational for subtraction involving 3-digit numbers in Grade 3 Unit 3.</p>	<p><b>Grade 2 Unit 8 Investigation 1</b></p> <p>Classroom Routines</p> <ul style="list-style-type: none"> <li><i>Today's Number: More or Less?</i></li> </ul> <p>Games*</p> <ul style="list-style-type: none"> <li><i>Spend \$1.00</i></li> <li><i>Get to 0</i></li> </ul> <p>*(These Grade 2 games can also be added to Math Workshop for Grade 3 Units 1 and 2.)</p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>Strategies for Subtracting 2-Digit Numbers</li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li><i>Intervention, Practice</i></li> </ul>

## Grade 4 Support

This guidance identifies key *Investigations* content from roughly the last third of a grade, which may not have been covered sufficiently due to the disruption at the end of the 2019–2020 school year.

To help cover this unfinished learning, the charts provide suggestions for where to include specific *Investigations* resources (Classroom Routines/Ten-Minute Math; Games; Math Words and Ideas; Expanded Differentiation Activities) as part of work in the next grade this school year, 2020–2021.

Grade 3 units 6, 7, and 8 may not have been covered in Spring, 2020. Resources from **six investigations** in Grade 3 are recommended to include in the Grade 4 units below, as needed.



<p><b>Grade 4 Unit</b></p>	<p><b>Key Grade 3 Content that Supports Grade 4</b></p>	<p><b>Resources to teach Key Grade 3 Content at Grade 4</b></p>
<p><b>Unit 5</b> <i>Large Numbers and Landmarks</i></p> <p>Number and Operations: Addition, Subtraction, and the Number System</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>1. Extending knowledge of the number system to 1,000,000</li> <li>2. Adding and Subtracting fluently</li> <li>3. Describing, analyzing, and comparing strategies for adding and subtracting whole numbers</li> </ol>	<p><b>Grade 3 Unit 7 Investigation 1</b></p> <p><i>Numbers in the Hundreds</i></p> <p>Problems that involve adding or subtracting multiples of 10 and 100 to 3-digit numbers</p> <p>prepare students to add and subtract larger numbers using place-value strategies in Grade 4 Unit 5.</p>	<p><b>Grade 3 Unit 7 Investigation 1</b></p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Tools to Represent Subtraction Problems</i></li> <li>• <i>Adding and Subtracting Tens and Hundreds</i></li> </ul> <p>Games</p> <ul style="list-style-type: none"> <li>• <i>Capture from 300 to 600</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Intervention, Practice</i></li> </ul>
	<p><b>Grade 3 Unit 7 Investigation 2</b></p> <p><i>Addition Strategies</i></p> <p>Using different strategies to add 3-digit numbers fluently within 1,000 prepares students to analyze and compare strategies that can be used to add numbers greater than 1,000 in Grade 4 Unit 5.</p>	<p><b>Grade 3 Unit 7 Investigation 2</b></p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Tools to Represent Addition Problems</i></li> <li>• <i>Addition Strategies: Changing the Numbers</i></li> <li>• <i>Addition Strategies: Adding by Place</i></li> <li>• <i>Addition Strategies: Adding One Number in Parts</i></li> </ul> <p>Games</p> <ul style="list-style-type: none"> <li>• <i>Collections Match</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Practice, Extension</i></li> </ul>



<p><b>Grade 4 Unit</b></p>	<p><b>Key Grade 3 Content that Supports Grade 4</b></p>	<p><b>Resources to teach Key Grade 3 Content at Grade 4</b></p>
	<p><b>Grade 3 Unit 7 Investigation 3</b> <i>Subtraction</i></p> <p>Using different strategies to subtract 3-digit numbers fluently within 1,000 prepares students to analyze and compare strategies that can be used to subtract numbers greater than 1,000 in Grade 4 Unit 5.</p>	<p><b>Grade 3 Unit 7 Investigation 3</b></p> <p>Ten-Minute Math</p> <ul style="list-style-type: none"> <li>• <i>Practicing Place Value</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Subtraction Strategies: Adding Up and Subtracting Back</i></li> <li>• <i>Subtraction Situations</i></li> <li>• <i>Subtraction Strategies: Subtracting One Number in Parts</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Intervention, Extension</i></li> </ul>
<p><b>Unit 6</b> <i>Fraction Cards and Decimal Grids</i></p> <p>Rational Numbers: Fractions and Decimals</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>1. Understanding the meaning of fractions and decimals</li> <li>2. Comparing the values of fractions and decimals</li> <li>3. Computing with rational numbers</li> </ol>	<p><b>Grade 3 Unit 6 Investigation 1</b> <i>Sharing Brownies</i></p> <p>Using manipulatives, area models, and number lines to develop an understanding of unit fractions and other fractional parts of a whole supports work with identifying fractional parts in Grade 4 Unit 6.</p>	<p><b>Grade 3 Unit 6 Investigation 1</b></p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Equivalent Fractions</i></li> <li>• <i>Fractions on a Number Line</i></li> <li>• <i>Quantities Greater than One</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Intervention, Practice, Extension</i></li> </ul>



<p><b>Grade 4 Unit</b></p>	<p><b>Key Grade 3 Content that Supports Grade 4</b></p>	<p><b>Resources to teach Key Grade 3 Content at Grade 4</b></p>
	<p><b>Grade 3 Unit 6 Investigation 2</b></p> <p><i>Many Ways to Make a Share</i></p> <p>Work with fraction equivalents and comparing fractions provides a foundation for comparing fractions and decimals and adding and subtracting with fractions in Grade 4 Unit 6.</p>	<p><b>Grade 3 Unit 6 Investigation 2</b></p> <p>Games</p> <ul style="list-style-type: none"> <li>• <i>Fraction Cookie</i></li> <li>• <i>Adding Fraction Cookies (Variation 1)</i></li> <li>• <i>Adding and Subtracting Fraction Cookies (Variation 2)</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Comparing Fractions with the Same Numerator or Denominator</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Intervention, Practice, Extension</i></li> </ul>



## Grade 5 Support

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To help cover this unfinished learning, the charts provide suggestions for where to include specific *Investigations* resources (Classroom Routines/Ten-Minute Math; Games; Math Words and Ideas; Expanded Differentiation Activities) as part of work in the next grade this school year, 2020–2021.

Grade 4 units 6, 7, and 8 may not have been covered Spring, 2020. Resources from **six investigations** in Grade 4 are recommended to include in the Grade 5 units below, as needed.



Grade 5 Unit	Key Grade 4 Content that Supports Grade 5	Resources to teach Key Grade 4 Content at Grade 5
<p><b>Unit 1</b> <i>Puzzles, Clusters, and Towers</i></p> <p>Number and Operations: Multiplication and Division 1</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>Solving multiplication problems with 2-digit numbers</li> <li>Understanding and using the relationship between multiplication and division to solve division problems</li> <li>Writing and interpreting numerical expressions</li> </ol>	<p><b>Grade 4 Unit 7 Investigation 2</b> <i>Strategies for Multiplication</i></p> <p>Students work on refining strategies that involve multiplying up to 4-digit numbers by 1-digit numbers as they prepare to use different strategies effectively when solving problems that involve multiplying 2-digit by 2-digit numbers in Grade 5 Unit 1.</p>	<p><b>Grade 4 Unit 7 Investigation 2</b></p> <p>Ten-Minute Math</p> <ul style="list-style-type: none"> <li><i>Closest Estimate</i></li> <li><i>Counting Around the Class</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li><i>Strategies for Solving Multiplication Problems</i></li> <li><i>Multiplication Cluster Problems</i></li> </ul> <p>Games</p> <ul style="list-style-type: none"> <li><i>Factor Bingo</i> (Introduced in Investigation 1)</li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li><i>Intervention, Practice</i></li> </ul>
	<p><b>Grade 4 Unit 7 Investigation 3</b> <i>Solving Division Problems</i></p> <p>Students work with representations and use story contexts to develop strategies for solving division problems with up to 4-digit dividends and 1-digit divisors as they prepare to use different strategies when solving problems that involve dividing 3-digit numbers by 2-digit divisors in Grade 5 Unit 1.</p>	<p><b>Grade 4 Unit 7 Investigation 3</b></p> <p>Ten-Minute Math</p> <ul style="list-style-type: none"> <li><i>Closest Estimate</i></li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li><i>Division Situations</i></li> <li><i>Division Strategies</i></li> <li><i>Division and Multiplication</i></li> <li><i>Remainders: What Do You Do With the Extras</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li><i>Intervention, Practice</i></li> </ul>





Grade 5 Unit	Key Grade 4 Content that Supports Grade 5	Resources to teach Key Grade 4 Content at Grade 5
<p><b>Unit 3</b> <i>Rectangles, Clocks, and Tracks</i></p> <p>Rational Numbers 1: Addition and Subtraction</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>1. Finding equivalents and comparing fractions</li> <li>2. Adding and subtracting fractions</li> </ol>	<p><b>Grade 4 Unit 6 Investigation 1</b> <i>Parts of Rectangles</i></p> <p>Problems that involve finding fractional parts of rectangles and identifying equivalent fractions support work with adding and subtracting fractions and mixed numbers in Grade 5 Unit 3.</p>	<p><b>Grade 4 Unit 6 Investigation 1</b></p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Fractions of an Area</i></li> <li>• <i>Generating Equivalent Fractions</i></li> <li>• <i>Fractional Parts</i></li> <li>• <i>Halves of Different Wholes</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Intervention, Practice, Extension</i></li> </ul> <p>Games</p> <ul style="list-style-type: none"> <li>• <i>Capture Fractions</i> (Game presentation)</li> </ul>



Grade 5 Unit	Key Grade 4 Content that Supports Grade 5	Resources to teach Key Grade 4 Content at Grade 5
<p><b>Unit 6</b> <i>Between 0 and 1</i></p> <p>Rational Numbers 2: Addition and Subtraction</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>1. Understanding the meaning of decimals</li> <li>2. Comparing decimals</li> <li>3. Adding and subtracting decimals</li> </ol>	<p><b>Grade 4 Unit 6 Investigation 2</b></p> <p>The <i>Capture Fractions</i> game supports work on comparing fractions in Grade 5 Unit 3.</p> <p><b>Grade 4 Unit 6 Investigation 3</b></p> <p><i>Adding and Subtracting Fractions and Decimals</i></p> <p>Gaining an understanding of decimal place value and adding decimals to the hundredths place prepares students to add and subtract decimals to the thousandths place in Grade 5 Unit 6.</p>	<p><b>Grade 4 Unit 6 Investigation 3</b></p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Representing Decimals</i></li> <li>• <i>Place Value: Decimals</i></li> <li>• <i>Tenths and Hundredths</i></li> <li>• <i>Adding Tenths and Hundredths</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Practice</i></li> </ul>



<p><b>Grade 5 Unit</b></p>	<p><b>Key Grade 4 Content that Supports Grade 5</b></p>	<p><b>Resources to teach Key Grade 4 Content at Grade 5</b></p>
<p><b>Unit 7</b> <i>Races, Arrays, and Grids</i></p> <p>Rational Numbers 3: Multiplication and Division</p> <p><b>Main Math Ideas</b></p> <ol style="list-style-type: none"> <li>1. Multiplying and dividing fractions, mixed numbers, and whole numbers</li> <li>2. Interpreting fractions as division</li> <li>3. Multiplying with decimals</li> <li>4. Dividing with decimals</li> <li>5. Converting measurements</li> </ol>	<p><b>Grade 4 Unit 6 Investigation 4</b> <i>Computation with Rational Numbers</i></p> <p>Using representations to add, subtract, and multiply fractions and whole numbers prepares students to multiply and divide with rational numbers using area models, grids, and other representations in Grade 5 Unit 7.</p>	<p><b>Grade 4 Unit 6 Investigation 4</b></p> <p>Ten-Minute Math</p> <ul style="list-style-type: none"> <li>• <i>Counting Around the Class</i> (see U6 Inv2, rather than U6 Inv4)</li> </ul> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <li>• <i>Multiplying Fractions by Whole Numbers</i></li> <li>• <i>Adding Fractions With Like Denominators</i></li> <li>• <i>Subtracting Fractions With Like Denominators</i></li> <li>• <i>Adding and Subtracting Mixed Numbers</i></li> </ul> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <li>• <i>Intervention, Practice, Extension</i></li> </ul>