



Grade 5 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 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>Unit 1 <i>Puzzles, Clusters, and Towers</i></p> <p>Number and Operations: Multiplication and Division 1</p> <p>Main Math Ideas</p> <ol style="list-style-type: none"> Solving multiplication problems with 2-digit numbers Understanding and using the relationship between multiplication and division to solve division problems Writing and interpreting numerical expressions 	<p>Grade 4 Unit 7 Investigation 2 <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>Grade 4 Unit 7 Investigation 2</p> <p>Ten-Minute Math</p> <ul style="list-style-type: none"> <i>Closest Estimate</i> <i>Counting Around the Class</i> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <i>Strategies for Solving Multiplication Problems</i> <i>Multiplication Cluster Problems</i> <p>Games</p> <ul style="list-style-type: none"> <i>Factor Bingo</i> (Introduced in Investigation 1) <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <i>Intervention, Practice</i>
	<p>Grade 4 Unit 7 Investigation 3 <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>Grade 4 Unit 7 Investigation 3</p> <p>Ten-Minute Math</p> <ul style="list-style-type: none"> <i>Closest Estimate</i> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> <i>Division Situations</i> <i>Division Strategies</i> <i>Division and Multiplication</i> <i>Remainders: What Do You Do With the Extras</i> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> <i>Intervention, Practice</i>



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<p>Unit 3 <i>Rectangles, Clocks, and Tracks</i></p> <p>Rational Numbers 1: Addition and Subtraction</p> <p>Main Math Ideas</p> <ol style="list-style-type: none"> 1. Finding equivalents and comparing fractions 2. Adding and subtracting fractions 	<p>Grade 4 Unit 6 Investigation 1 <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>Grade 4 Unit 6 Investigation 1</p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> • <i>Fractions of an Area</i> • <i>Generating Equivalent Fractions</i> • <i>Fractional Parts</i> • <i>Halves of Different Wholes</i> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> • <i>Intervention, Practice, Extension</i> <p>Games</p> <ul style="list-style-type: none"> • <i>Capture Fractions</i> (Game presentation)



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<p>Unit 6 <i>Between 0 and 1</i></p> <p>Rational Numbers 2: Addition and Subtraction</p> <p>Main Math Ideas</p> <ol style="list-style-type: none"> 1. Understanding the meaning of decimals 2. Comparing decimals 3. Adding and subtracting decimals 	<p>Grade 4 Unit 6 Investigation 2</p> <p>The <i>Capture Fractions</i> game supports work on comparing fractions in Grade 5 Unit 3.</p> <p>Grade 4 Unit 6 Investigation 3</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>Grade 4 Unit 6 Investigation 3</p> <p>Math Words and Ideas</p> <ul style="list-style-type: none"> • <i>Representing Decimals</i> • <i>Place Value: Decimals</i> • <i>Tenths and Hundredths</i> • <i>Adding Tenths and Hundredths</i> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> • <i>Practice</i>



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<p>Unit 7 <i>Races, Arrays, and Grids</i></p> <p>Rational Numbers 3: Multiplication and Division</p> <p>Main Math Ideas</p> <ol style="list-style-type: none"> 1. Multiplying and dividing fractions, mixed numbers, and whole numbers 2. Interpreting fractions as division 3. Multiplying with decimals 4. Dividing with decimals 5. Converting measurements 	<p>Grade 4 Unit 6 Investigation 4 <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>Grade 4 Unit 6 Investigation 4</p> <p>Ten-Minute Math</p> <ul style="list-style-type: none"> • <i>Counting Around the Class</i> (see U6 Inv2, rather than U6 Inv4) <p>Math Words and Ideas</p> <ul style="list-style-type: none"> • <i>Multiplying Fractions by Whole Numbers</i> • <i>Adding Fractions With Like Denominators</i> • <i>Subtracting Fractions With Like Denominators</i> • <i>Adding and Subtracting Mixed Numbers</i> <p>Expanded Differentiation Activities</p> <ul style="list-style-type: none"> • <i>Intervention, Practice, Extension</i>