

Grade 5 Math

Diary map is based on the 2017-2018 school year. Information may change year to year. Months are guidelines and items may be done at different times of the year.

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
<p>Common Core Standards for Mathematical Content</p> <p>Operations and Algebraic Thinking 5.OA.A Write and interpret numerical expressions. 5.OA.B Analyze patterns and relationships.</p> <p>Number and Operations in Base Ten 5.NBT.A Understand the place value system. 5.NBT.B Perform operations with multi-digit whole numbers and with decimals to hundredths.</p> <p>Number and Operations—Fractions 5.NF.A Use equivalent fractions as a strategy to add and subtract fractions. 5.NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions.</p> <p>Measurement and Data 5.MD.A Convert like measurement units within a given measurement system. 5.MD.B Represent and interpret data. 5.MD.C Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.</p> <p>Geometry 5.G.A Graph points on the coordinate plane to solve real-world and mathematical problems. 5.G.B Classify two-dimensional figures into categories based on their properties.</p>			<p>Common Core Standards for Mathematical Practice MP.1 Make sense of problems and persevere in solving them. MP.2 Reason abstractly and quantitatively. MP.3 Construct viable arguments and critique the reasoning of others. MP.4 Model with mathematics. MP.5 Use appropriate tools strategically. MP.6 Attend to precision. MP.7 Look for and make use of structure. MP.8 Look for and express regularity in repeated reasoning.</p> <p>*Practice standards are ongoing all year.</p>			
Ongoing	ALEKS How are math skills practiced and applied?	ALEKS -Grade level math topics and prerequisites	ALEKS -Apply math skills to solve problems that are individualized based on level of readiness	ALEKS -Mastery of individualized topics		ALEKS -ALEKS program -iPads
Aug.-Sept.	Place Value How does the position of a digit in a number relate to its value? 5.NBT.A.1 5.NBT.A.3 5.NBT.A.3a 5.NBT.A.3b 5.NBT.B.5	Place Value -Place-value -Period -Place -Standard form -Expanded form -Decimal -Decimal point	Place Value -Read and write whole numbers through millions -Compare and order whole numbers through millions -Use models to relate	Place Value McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated	Place Value McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated	Place Value -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com

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		-Equivalent decimals	decimals to fractions -Represent fractions that name tenths, hundredths, and thousandths as decimals -Understand place value in decimal numbers -Read and write decimals in standard form, expanded form, and word form -Compare decimals -Order whole numbers and decimals -Solve problem using the four-step plan	instruction	instruction -Place Value Chart	
Sept. - Oct. Standards: 5.NBT.B.5 5.NBT.A.2	Numbers What strategies can be used to multiply whole numbers?	Multiply Whole Numbers -Prime factorization -Exponent -Base -Power -Squared -Cubed -Powers of 10 -Distributive Property -Compatible numbers	Multiply Whole Numbers -Find the prime factorization of numbers -Explore patterns in prime factorization -Use powers and exponents in expressions -Use basic facts and patterns to multiply multiples of 10, 100, 1000 mentally -Make a table to solve problems -Explore multiplication by using area models -Use the distributive property to multiply mentally -Estimate products by using rounding and compatible numbers	Multiply Whole Numbers McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Multiply Whole Numbers McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Multiplication tables -Calculators -Place Value Chart -Area model -Dry erase boards and markers	Multiply Whole Numbers -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com

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			<ul style="list-style-type: none"> -Multiply up to a three-digit number by a one-digit number -Multiply up to a three-digit number by a two-digit number 			
<p>Oct.</p> <p>Standards: 5.NBT.B.6</p>	<p>Divide by a One-Digit Divisor What strategies can be used to divide whole numbers?</p>	<p>Divide by a One-Digit Divisor -Fact family -Unknown variables -Variable -Dividend -Divisor -Quotient -Remainder</p>	<p>Divide by a One-Digit Divisor -Understand how division and multiplication are related -Explore division using models -Carry out division with and without remainders -Use basic facts and patterns to divide multiples of 10, 100, 1000 mentally -Estimate quotients by using rounding and compatible numbers -Explore division with greater numbers using models</p>	<p>Divide by a One-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction</p>	<p>Divide by a One-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators</p>	<p>Divide by a One-Digit Divisor -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com</p>
<p>Nov.</p> <p>Standards: 5.NBT.B.6</p>	<p>Divide by a One-Digit Divisor What strategies can be used to divide whole numbers?</p>	<p>Divide by a One-Digit Divisor (continued from October) -Partial quotients</p>	<p>Divide by a One-Digit Divisor -Divide using the Distributive Property and partial quotients -Divide up to a four-digit number by a one-digit number -Understand how to place the first digit in a quotient -Solve division problems that result in quotients</p>	<p>Divide by a One-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction</p>	<p>Divide by a One-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation</p>	<p>Divide by a One-Digit Divisor -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com</p>

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			<ul style="list-style-type: none"> that have zeroes -Explore how to interpret the remainder in a division problem -Interpret the remainder in a division problem -Identify extra information or missing information needed to solve a problem 		<ul style="list-style-type: none"> -Dry erase boards and markers -Multiplication tables -Calculators 	
<p>Dec.</p> <p>Standards: 5.NBT.B.6</p>	<p>Divide by a Two-Digit Divisor What strategies can be used to divide by a two-digit divisor?</p>	<p>Divide by a Two-Digit Divisor -Compatible numbers -Remainder -Dividend -Estimate -Quotient -Round</p>	<p>Divide by a Two-Digit Divisor -Estimate quotients with two-digit divisors -Explore dividing by two-digit divisors using models -Divide up to a three-digit number by a two-digit divisor -Adjust the quotient when the estimated digit is too high or too low -Divide greater numbers by multi-digit divisors -Solve problems by solving a simpler problem</p>	<p>Divide by a Two-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction</p>	<p>Divide by a Two-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators</p>	<p>Divide by a Two-Digit Divisor -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com</p>
<p>Jan.</p> <p>Standards: 5.NBT.A.4 5.NBT.B.7</p>	<p>Add and Subtract Decimals How are place value and properties used to add and subtract decimals?</p>	<p>Add and Subtract Decimals -Commutative Property of Addition -Associative Property of Addition -Identity Property of Addition</p>	<p>Add and Subtract Decimals -Round decimals -Estimate sums and differences by rounding -Solve problems by using an estimate or an exact answer -Explore adding decimals using base-ten</p>	<p>Add and Subtract Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction</p>	<p>Add and Subtract Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction</p>	<p>Add and Subtract Decimals -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com</p>

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			blocks -Explore adding decimals using models -Add decimals -Use the Associative, Commutative, and Identity Properties to add whole numbers and decimals mentally -Explore subtracting decimals using base-ten blocks -Explore subtracting decimals using models -Subtract decimals		-Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	
Standards: 5.NBT.A.2 5.NBT.B.5 5.NBT.B.6 5.NBT.B.7	Multiply and Divide Decimals How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?	Multiply and Divide Decimals -Decimals -Estimation -Place value	Multiply and Divide Decimals -Estimate products of whole numbers and decimals -Explore multiplying decimals by whole numbers	Multiply and Divide Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Multiply and Divide Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	Multiply and Divide Decimals -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com
Feb. Standards: 5.NBT.A.2 5.NBT.B.5	Multiply and Divide Decimals How is multiplying and dividing decimals similar to multiplying	Multiply and Divide Decimals -Associative Property of Multiplication -Commutative Property	Multiply and Divide Decimals -Multiply decimals by whole numbers -Explore using decimal	Multiply and Divide Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016)	Multiply and Divide Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016)	Multiply and Divide Decimals -SMART Board -ALEKS -website:

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5.NBT.B.6 5.NBT.B.7	and dividing whole numbers?	of Multiplication -Identity Property of Multiplication -Power of 10 -Quotient	models to multiply decimals -Multiply decimals by decimals -Multiply decimals by powers of 10 -Solve problems by looking for a pattern -Use the Associative, Commutative, and Identity properties to multiply mentally -Estimate quotients of decimals and whole numbers -Explore dividing decimals by whole numbers -Divide decimals by whole numbers	-student book -Assessment Masters -teacher edition website for differentiated instruction	-student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	www.connectED.mcgraw-hill.com
March Standards: 5.NBT.A.2 5.NBT.B.5 5.NBT.B.6 5.NBT.B.7	Multiply and Divide Decimals How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?	Multiply and Divide Decimals -Divide -Divisor -Dividend -Exponents	Multiply and Divide Decimals -Explore using models to divide decimals by decimals -Divide decimals by decimals -Divide decimals by powers of ten	Multiply and Divide Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Multiply and Divide Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	Multiply and Divide Decimals -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com

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	Standards: 5.OA.A.1 5.OA.A.2 5.OA.B.3 5.G.A.2 5.G.A.1 Expressions and Patterns How are patterns used to solve problems?	Expressions and Patterns -Numerical expression -Evaluate -Order of operations	Expressions and Patterns -Write and evaluate numerical expressions -Use the order of operations -Use numbers and operation symbols to write verbal phrases as numerical expressions -Solve problems by working backward -Generate numerical patterns and identify pattern relationships	Expressions and Patterns McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Expressions and Patterns McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	Expressions and Patterns -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com
April Standards: 5.OA.A.1 5.OA.A.2 5.OA.B.3 5.G.A.2 5.G.A.1	Expressions and Patterns How are patterns used to solve problems?	Expressions and Patterns -Sequence -Term -Coordinate plane -Origin -Ordered pair -X-coordinate -Y-coordinate	Expressions and Patterns -Identify and extend patterns and sequences -Plot points on a grid to solve real-world problems -Graph points on a coordinate plane to solve real-world and mathematical problems -Graph ordered pairs on a coordinate plane to solve problems involving two numerical patterns	Expressions and Patterns McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Expressions and Patterns McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	Expressions and Patterns -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com
Standards: 5.NF.B.3 5.NF.A.2	Fractions and Decimals How are factors and	Fractions and Decimals -Fraction -Numerator	Fractions and Decimals -Solve word problems by interpreting a fraction as	Fractions and Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1	Fractions and Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1	Fractions and Decimals -SMART Board

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5.NF.B.5b 5.NBT.B.5	multiples helpful in solving problems?	-Denominator -Common factors -Greatest Common Factor (GCF) -Simplest form -Equivalent fractions -Multiple -Common multiples -Least Common Multiple (LCM) -Least Common Denominator (LCD)	a division of the numerator by the denominator -Determine the common factors and the greatest common factor of a set of numbers -Generate equivalent fractions by writing a fraction in simplest form -Guess, check, and revise to solve problems -Determine the common multiples and the least common multiples of a set of numbers -Compare fractions by using the least common denominator -Explore how to use models and fraction equivalence to write fractions as decimals -Use fraction equivalence to write fractions as decimals	(2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	(2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers	-ALEKS -website: www.connectED.mcgraw-hill.com
May Standards: 5.NF.A.2 5.NF.A.1	Add and Subtract Fractions How can equivalent fractions help to add and subtract fractions?	Add and Subtract Fractions -Like fraction -Unlike fraction	Add and Subtract Fractions -Use number lines and benchmark fractions, such as 1/2, to round fractions -Add like fractions and solve word problems involving the addition of like fractions -Subtract like fractions and solve word problems	Add and Subtract Fractions McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Add and Subtract Fractions McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts	Add and Subtract Fractions -SMART Board -ALEKS -website: www.connectED.mcgraw-hill.com

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			involving the subtraction of like fractions -Use models to add unlike fractions -Add unlike fractions and solve word problems involving the addition of unlike fractions -Use models to subtract unlike fractions -Subtract unlike fractions and solve word problems involving the subtraction of unlike fractions -Solve problems by determining reasonable answers -Use number sense and benchmark fractions to estimate sums and differences -Explore adding mixed numbers using models -Add mixed numbers and solve word problems involving the addition of mixed numbers -Subtract mixed numbers and solve word problems involving the subtraction of mixed numbers -Use fraction equivalence to subtract with renaming		for differentiation -Dry erase boards and markers	
Standards: 5.NF.B.4a 5.NF.B.6	Multiply and Divide Fractions What strategies can be	Multiply and Divide Fractions -Scaling	Multiply and Divide Fractions -Explore how to find part	Multiply and Divide Fractions McGraw Hill <i>My Math</i>	Multiply and Divide Fractions McGraw Hill <i>My Math</i>	Multiply and Divide Fractions -SMART Board

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5.NF.B.4b 5.NF.B.4 5.NF.B.5a 5.NF.B.7c 5.NF.B.7b 5.NF.B.7.a	used to multiply and divide fractions?	-Unit fraction	of a number -Estimate products of fractions using compatible numbers and rounding -Explore multiplying whole numbers and fractions using models -Multiply whole numbers and fractions -Explore using models to multiply a fraction by a fraction -Multiply fractions -Multiply mixed numbers -Interpret multiplication of fractions as scaling -Divide whole numbers by unit fractions using models -Use bar diagrams to divide whole numbers by unit fractions	Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers	-ALEKS -website: www.connectED.mcgraw-hill.com