Mathematical Practices

- ☐ Make sense of problems and persevere in solving them.
- ☐ Reason abstractly and quantitatively.
- ☐ Construct viable arguments and critique the reasoning of others.
- ☐ Model with mathematics.
- ☐ Use appropriate tools strategically.
- ☐ Attend to precision.
- ☐ Look for and make use of structure.
- ☐ Look for and express regularity in repeated reasoning.

Vocabulary

NBT
Base
Distributive Property
Evaluate
Exponent
Inverse operations
Place value
Period

OA
Compatible numbers
Estimate
Multiply
Numerical expression
Order of operations
Partial Quotients
Remainder

NF
Dividend
Divisor
Factor
Product
Quotient

Prerequisites

Last year, teachers spent a large majority of the instructional time on these focus skills.
This year, students should have a strong foundation in the following areas:

Major Focus	Supporting Work	Additional Work (Minor)
Use the four operations with whole numbers to solve problems. Generalize place value understanding for multi-digit whole numbers. Use place value understanding and properties of operations to perform multi-digit arithmetic. Extend understanding of fraction equivalence and ordering. Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. Understand decimal notation for fractions, and compare decimal fractions.	Gain familiarity with factors and multiples. Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. Represent and interpret data.	Generate and analyze patterns. Geometric measurement: understand concepts of angle and measure angles. Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

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Fifth Grade • First Quarter

Pacing Guide

Go Math! Chapters 1-2

Mathematics

Introduction to Your Mathematics Pacing Guide

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- Introduce 9-week content skills according to the Pacing Guide.
- Incorporate the enclosed research-based instructional practices.
- Once a skill is mastered, continue to practice it.
- Continue to reinforce skills and concepts throughout the year until mastery is achieved.
- Become familiar with sequencing at previous and subsequent grade levels.
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Grade 5	Mathematics			First Quarter
Operations & Algebraic Thinking	**Number & Operations in Base Ten**	**Number & Operations - Fractions**	**Measurement & Data**	**Geometry**
5.OA.1 ☐ **I CAN** use the order of operations with whole numbers. **5.OA.2** ☐ **I CAN** read, write, and interpret expressions.	**5.NBT.1** ☐ **I CAN** understand that each place value is 10 times larger to the place on its right and the inverse also applies. **5.NBT.2** ☐ **I CAN** write any number in expanded notation or by using powers of 10. **5.NBT.5** ☐ **I CAN** fluently multiply multi-digit whole numbers. **5.NBT.6** ☐ **I CAN** divide with a two-digit divisor using various strategies.	**5.NF.5** ☐ **I CAN** understand multiplication by comparing the sizes of the factors in related multiplication problems.	*This is not a focus area during this quarter.* *Continue to reinforce skills and concepts previously introduced, as necessary.*	*This is not a focus area during this quarter.* *Continue to reinforce skills and concepts previously introduced, as necessary.*

Mathematical Practices

- ☐ Make sense of problems and persevere in solving them.
- ☐ Reason abstractly and quantitatively.
- ☐ Construct viable arguments and critique the reasoning of others.
- ☐ Model with mathematics.
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- ☐ Attend to precision.
- ☐ Look for and make use of structure.
- ☐ Look for and express regularity in repeated reasoning.

Vocabulary

Benchmark	Ones
Compatible numbers	Pattern
Decimal	Product
Decimal point	Place value
Dividend	Quotient
Divisor	Remainder
Equivalent fractions	Round
Estimate	Sequence
Expanded Form	Tenths
Exponent	Term
Hundredths	Thousandths
Multiplication	

Prerequisites

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This year, students should have a strong foundation in the following areas:

Major Focus	Supporting Work	Additional Work (Minor)
Use the four operations with whole numbers to solve problems. Generalize place value understanding for multi-digit whole numbers. Use place value understanding and properties of operations to perform multi-digit arithmetic. Extend understanding of fraction equivalence and ordering. Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. Understand decimal notation for fractions, and compare decimal fractions.	Gain familiarity with factors and multiples. Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. Represent and interpret data.	Generate and analyze patterns. Geometric measurement: understand concepts of angle and measure angles. Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

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Fifth Grade • Second Quarter
Pacing Guide
Go Math! Chapters 3-5

Mathematics

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Yvonne Caamal Canul
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the teachers and administrators who helped develop and revise the pacing guides.

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Grade 5	Mathematics			Second Quarter
Operations & Algebraic Thinking	**Number & Operations in Base Ten**	**Number & Operations - Fractions**	**Measurement & Data**	**Geometry**
This is not a focus area during this quarter. *Continue to reinforce skills and concepts previously introduced, as necessary.*	**5.NBT.2** ☐ **I CAN** write any decimal in expanded notation. **5.NBT.4** ☐ **I CAN** round decimals to any place. **5.NBT.7** ☐ **I CAN** add decimals to the hundredths using various strategies. ☐ **I CAN** subtract decimals to the hundredths using various strategies. ☐ **I CAN** multiply decimals to the hundredths using various strategies. ☐ **I CAN** divide decimals to the hundredths using various strategies.	***This is not a focus area during this quarter.*** *Continue to reinforce skills and concepts previously introduced, as necessary.*	***This is not a focus area during this quarter.*** *Continue to reinforce skills and concepts previously introduced, as necessary.*	***This is not a focus area during this quarter.*** *Continue to reinforce skills and concepts previously introduced, as necessary.*

Mathematical Practices

- ☐ Make sense of problems and persevere in solving them.

- ☐ Reason abstractly and quantitatively.

- ☐ Construct viable arguments and critique the reasoning of others.

- ☐ Model with mathematics.

- ☐ Use appropriate tools strategically.

- ☐ Attend to precision.

- ☐ Look for and make use of structure.

- ☐ Look for and express regularity in repeated reasoning.

Vocabulary

Benchmark	Equivalent fraction
Common denominator	Fraction
Common multiple	Mixed numbers
Denominators	Numerator
Difference	Product
Dividend	Quotient
Divisor	Simplest form
Equation	Sum

Prerequisites

Last year, teachers spent a large majority of the instructional time on these focus skills.
This year, students should have a strong foundation in the following areas:

Major Focus	Supporting Work	Additional Work (Minor)
Use the four operations with whole numbers to solve problems.	Gain familiarity with factors and multiples.	Generate and analyze patterns.
Generalize place value understanding for multi-digit whole numbers.	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	Geometric measurement: understand concepts of angle and measure angles.
Use place value understanding and properties of operations to perform multi-digit arithmetic.	Represent and interpret data.	Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
Extend understanding of fraction equivalence and ordering.		
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.		
Understand decimal notation for fractions, and compare decimal fractions.		

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Fifth Grade • Third Quarter

Pacing Guide

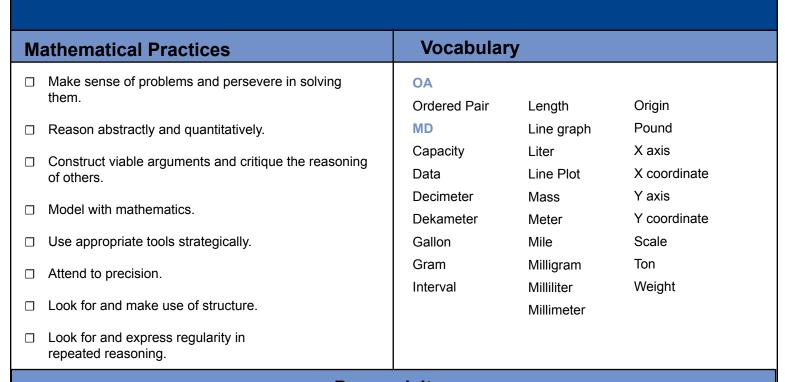Go Math! Chapters 6-8

Mathematics

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Grade 5		Mathematics		Third Quarter
Operations & Algebraic Thinking	**Number & Operations in Base Ten**	**Number & Operations - Fractions**	**Measurement & Data**	**Geometry**
This is not a focus area during this quarter. *Continue to reinforce skills and concepts previously introduced, as necessary.*	*This is not a focus area during this quarter.* *Continue to reinforce skills and concepts previously introduced, as necessary.*	**5.NF.1** ☐ **I CAN** add and subtract fractions with unlike denominators (including mixed numbers) and simplify my answers. ☐ **I CAN** find and use equivalent fractions. ☐ **I CAN** convert between improper fractions and mixed numbers. **5.NF.2** ☐ **I CAN** solve word problems using addition and subtraction of fractions with like and unlike denominators. **5.NF.3** ☐ **I CAN** explain a fraction as division of the numerator by the denominator. ☐ **I CAN** solve division of whole number word problems where the answer is a fraction or mixed number. **5.NF.4** ☐ **I CAN** multiply a fraction by a whole number using various strategies. ☐ **I CAN** use various strategies to find the area of a rectangle with fraction side lengths and represent the area with a fraction. **5.NF.5** ☐ **I CAN** understand when I multiply a number by a fraction the product will be smaller than the given number. ☐ **I CAN** understand when multiplying a number by a fraction greater than 1 the product will be greater than the given number. **5.NF.6** ☐ **I CAN** solve real world problems by multiplying fractions and mixed numbers. **5.NF.7** ☐ **I CAN** understand and apply dividing a unit fraction by a whole number. ☐ **I CAN** understand and apply dividing a whole number by a unit fraction. ☐ **I CAN** solve real world problems by dividing fractions and whole numbers.	*This is not a focus area during this quarter.* *Continue to reinforce skills and concepts previously introduced, as necessary.*	*This is not a focus area during this quarter.* *Continue to reinforce skills and concepts previously introduced, as necessary.*

Mathematical Practices

- ☐ Make sense of problems and persevere in solving them.
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Vocabulary

OA

Ordered Pair	Length	Origin
MD	Line graph	Pound
Capacity	Liter	X axis
Data	Line Plot	X coordinate
Decimeter	Mass	Y axis
Dekameter	Meter	Y coordinate
Gallon	Mile	Scale
Gram	Milligram	Ton
Interval	Milliliter	Weight
	Millimeter	

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Fifth Grade • Fourth Quarter

Pacing Guide

Go Math! Chapters 9-11

Mathematics

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Grade 5	Mathematics		Fourth Quarter	
Operations & Algebraic Thinking	**Number & Operations in Base Ten**	**Number & Operations - Fractions**	**Measurement & Data**	**Geometry**
5.OA.3 ☐ **I CAN** use given rules to generate numerical patterns, for ordered pairs, and graph the ordered pairs on a coordinate plane.	*This is not a focus area during this quarter.* *Continue to reinforce skills and concepts previously introduced, as necessary.*	*This is not a focus area during this quarter.* *Continue to reinforce skills and concepts previously introduced, as necessary.*	**5.MD.1** ☐ **I CAN** convert measurement units within a measurement system. **5.MD.2** ☐ **I CAN** make and use a line plot with fractions. **5.MD.3** ☐ **I CAN** recognize one cubic unit of volume. ☐ **I CAN** understand that volume is measured using cubic units to completely fill a solid figure. **5.MD.4** ☐ **I CAN** measure volume by filling an object with unit cubes of various sizes and counting them. ☐ **I CAN** measure volume by filling an object with unit cubes, counting them, and relating to volume formula. **5.MD.5** ☐ **I CAN** use formulas to find the volume of an object. ☐ **I CAN** find the volume of complex solid figures by finding the volumes of a box within the figure and adding the volumes together.	**5.G.1** ☐ **I CAN** find a point using positive ordered pairs. **5.G.2** ☐ **I CAN** solve real world problems by graphing positive ordered pairs. **5.G.3** ☐ **I CAN** identify and categorize similarities between 2-dimensional objects. **5.G.4** ☐ **I CAN** name 2-dimensional figures based on properties.