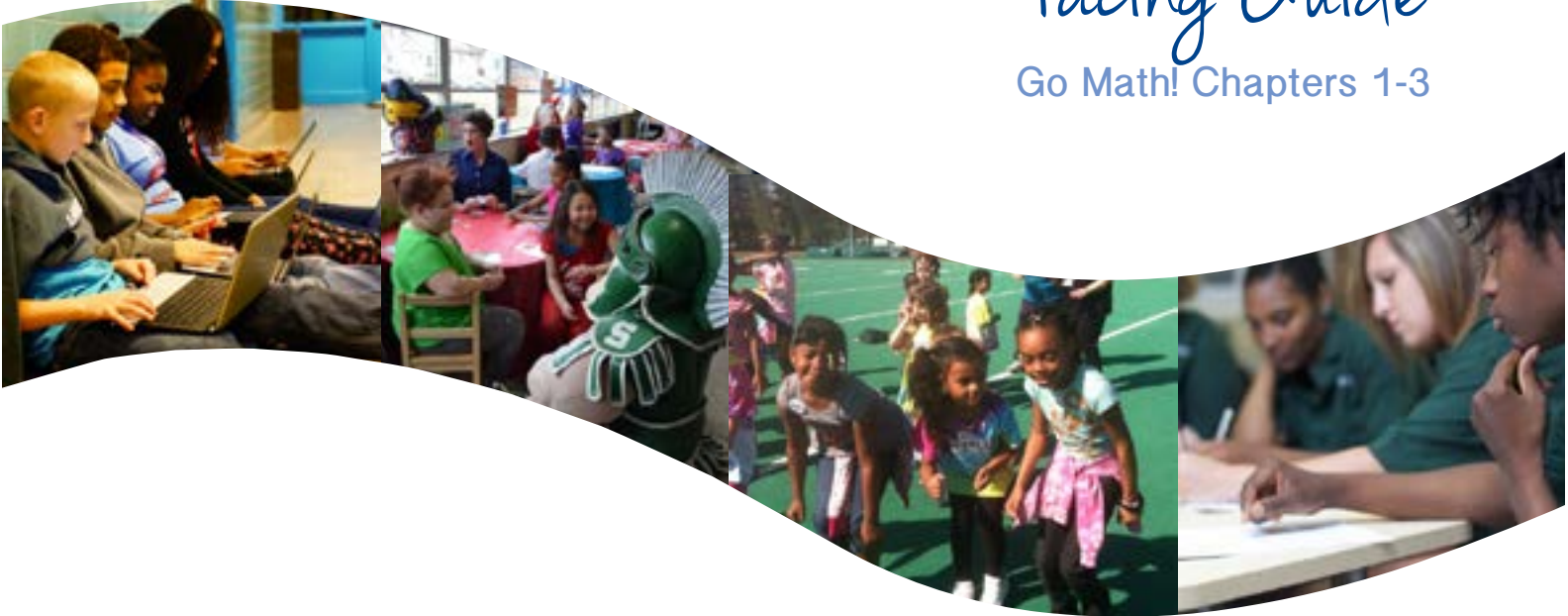## Mathematical Practices

- ☐ 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

Chapter 1	Chapter 2	Chapter 3
Compatible numbers	Frequency table	Array
Difference	Graph	Equal groups of
Estimate	Horizontal bar	Factor
Pattern	Key	Multiply
Round	Line Plot	Product
	Picture graph scale	
Associative Property of Addition	Tally table	Identity Property of Multiplication
	Vertical bar graph	
Commutative Property of Addition		Zero Property of Multiplication
Identity Property of Addition		Commutative Property of 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)
Represent and solve problems involving addition and subtraction.	Work with equal groups of objects to gain foundations for multiplication.	Reason with shapes and their attributes.
Add and subtract within 20.	Work with time and money.	
Understand place value.	Represent and interpret data.	
Use place value understanding and properties of operations to add and subtract.		
Measure and estimate lengths in standard units.		
Relate addition and subtraction to length.		

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Third Grade • First Quarter
Pacing Guide
Go Math! Chapters 1-3

Mathematics

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Grade 3	Mathematics			First Quarter
Operations & Algebraic Thinking	**Number & Operations in Base Ten**	**Number & Operations - Fractions**	**Measurement & Data**	**Geometry**

Operations & Algebraic Thinking

Chapter 3
Understand Multiplication

OA.3.3

☐ **I CAN** use what I know to solve multiplication word problems.

☐ **I CAN** write a multiplication problem in more than one way.

☐ **I CAN** make an array.

OA.3.4

☐ **I CAN** find the missing number in a multiplication problem.

OA.3.5

☐ **I CAN** define and use the commutative property to solve multiplication problems.

OA.3.7

☐ **I CAN** multiply with factors up to 10 X 10.

OA.3.8

☐ **I CAN** solve two-step word problems using addition, subtraction, & multiplication
☐ **I CAN** justify my answer by using mental math, estimating, and rounding.

OA.3.9

☐ **I CAN** find patterns using addition and multiplication and explain them using what I know about numbers.

Number & Operations in Base Ten

Chapter 1
Add and Subtract Within 1,000

NBT.3.1

☐ **I CAN** read, write, and model place value to nearest 10 and 100.

☐ **I CAN** put together/take apart manipulatives to illustrate Base 10.

☐ **I CAN** round to the nearest 10 and/or 100.

NBT.3.2

☐ **I CAN** add two digit numbers using strategies.

☐ **I CAN** add three digit numbers using strategies.

☐ **I CAN** subtract two digit numbers using strategies.

☐ **I CAN** subtract three digit numbers using strategies.

☐ **I CAN** check my answer using the inverse operation.

Number & Operations - Fractions

This is not a focus area during this quarter.

Continue to reinforce skills and concepts previously introduced, as necessary.

Measurement & Data

Chapter 2
Represent and Interpret Data

MD3.3

☐ **I CAN** create a pictograph and bar graph to represent data for several categories.

☐ **I CAN** apply the key to solve.

☐ **I CAN** solve a one-step word problem using data shown in the graph.

☐ **I CAN** solve a two-step word problem using data shown in the graph.

MD.3.4

☐ **I CAN** show and understand horizontal axis.

☐ **I CAN** convert the data into a line plot.

Geometry

This is not a focus area during this quarter.

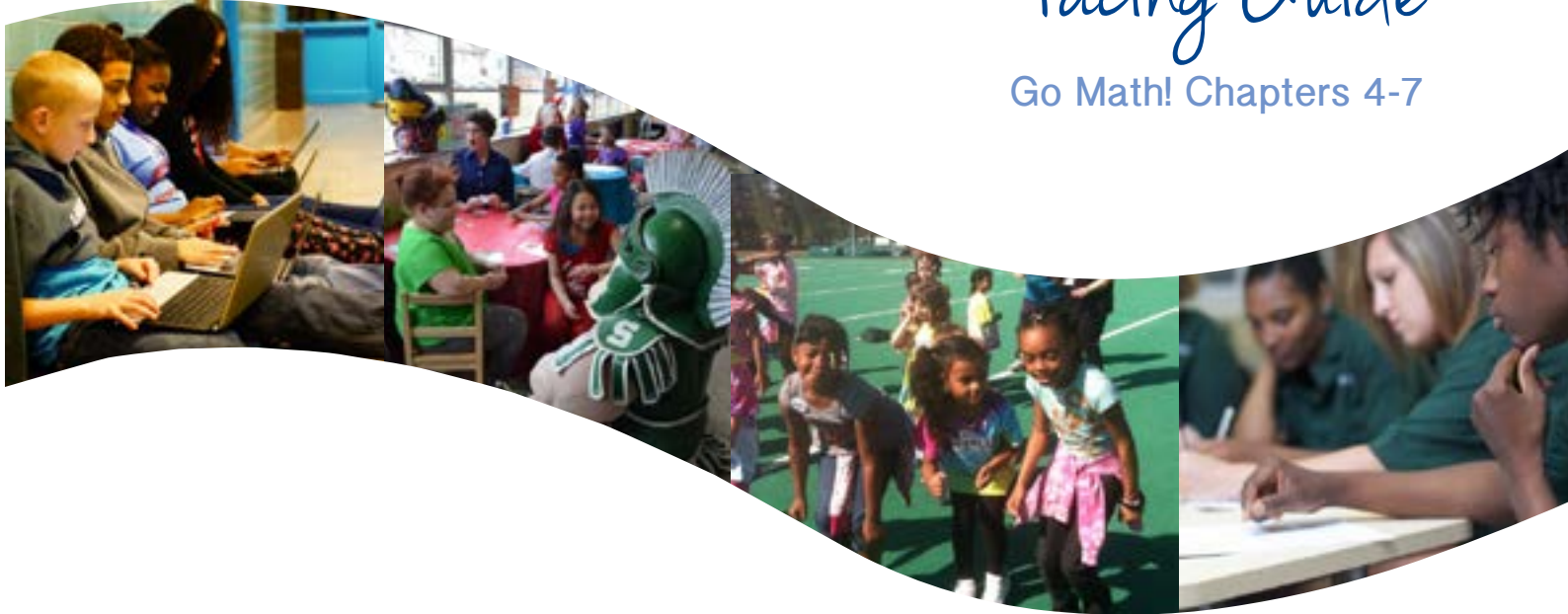*Continue to reinforce skills and concepts previously introduced, as necessary.*

Mathematical Practices

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- ☐ 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

Chapter 4
Array
Factor
Multiple
Product
Associative Property of Multiplication
Identity Property of Multiplication
Commutative Property of Multiplication
Distributive Property

Chapter 5
Array
Equation
Factor
Pattern
Place value
Product
Commutative Property of Multiplication
Distributive Property

Chapter 6
Divide
Dividend
Divisor
Equal groups
Factor
Inverse operation
Quotient
Related facts

Chapter 7
Dividend
Divisor
Equation
Inverse operation
Order of operations
Quotient
Related facts

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)
Represent and solve problems involving addition and subtraction. Add and subtract within 20. Understand place value. Use place value understanding and properties of operations to add and subtract. Measure and estimate lengths in standard units. Relate addition and subtraction to length.	Work with equal groups of objects to gain foundations for multiplication. Work with time and money. Represent and interpret data.	Reason with shapes and their attributes.

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Third Grade • Second Quarter
Pacing Guide
Go Math! Chapters 4-7

Mathematics

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Grade 3 — Mathematics — Second Quarter

Operations & Algebraic Thinking	Number & Operations in Base Ten	Number & Operations - Fractions	Measurement & Data	Geometry
Chapter 4 **Multiplication Facts and Strategies** **Chapter 5** **Use Multiplication Facts** **OA.3.2** ☐ **I CAN** define quotients, dividends and divisors. ☐ **I CAN** make a model of a division problem. ☐ **I CAN** solve a division word problem. **OA.3.3** ☐ **I CAN** use what I know to solve multiplication and division word problems. ☐ **I CAN** write a multiplication or division problem in more than one way. ☐ **I CAN** find and label factors and product. ☐ **I CAN** make an array. ☐ **I CAN** solve a multiplication word problem. **OA.3.4** ☐ **I CAN** find the missing number in a multiplication problem. ☐ **I CAN** find the missing number in a division problem. **OA.3.5** ☐ **I CAN** define and use the associative, commutative, and distributive property to solve multiplication and division problems. ☐ **I CAN** make an equation to represent each property of multiplication. **OA.3.6** ☐ **I CAN** select fact families to solve for a division problem. **OA.3.7** ☐ **I CAN** multiply with factors up to 10 X 10. ☐ **I CAN** divide with factors up to 10 X 10. **OA.3.8** ☐ **I CAN** solve two-step word problems using addition, subtraction, multiplication, and division. ☐ **I CAN** justify my answer by using mental math, estimating, and rounding. **OA.3.9** ☐ **I CAN** find patterns using addition and multiplication and explain them using what I know about numbers.	**Chapter 6** **Understand Division** **Chapter 7** **Division Facts and Strategies** **NBT.3.2** ☐ **I CAN** check my answer using the inverse operation. **NBT.3.3** ☐ **I CAN** list multiples when solving for a product. ☐ **I CAN** multiply one-digit numbers by multiples of 10 (10-90).	*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	Vocabulary		
☐ Make sense of problems and persevere in solving them.	**Chapter 8**	**Chapter 9**	**Chapter 10**
☐ Reason abstractly and quantitatively.	Denominator	Denominator	A.M.
☐ Construct viable arguments and critique the reasoning of others.	Eighths	Eighths	Elapsed time
	Equal Parts	Equal parts	Gram
☐ Model with mathematics.	Fourths	Equivalent fractions	Halves
☐ Use appropriate tools strategically.	Fraction	Greater than (>)	Kilogram
	Fraction greater than 1	Less than (<)	Liquid volume
☐ Attend to precision.	Halves	Numerator	Liter
☐ Look for and make use of structure.	Numerator	Unit fraction	Mass
	Sixths		
☐ Look for and express regularity in repeated reasoning.	Thirds		
	Unit fraction		
	Whole		

Prerequisites

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Lansing School District

Third Grade • Third Quarter

Pacing Guide

Go Math! Chapters 8-10

Mathematics

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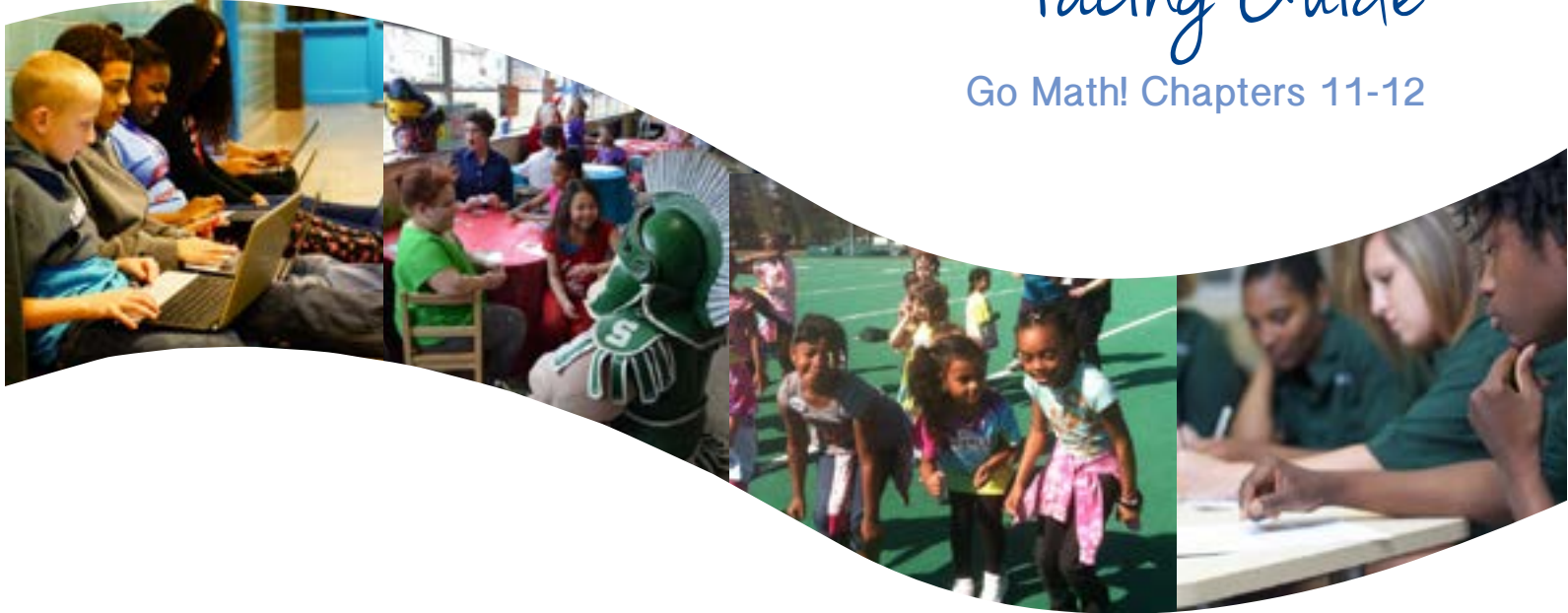| Grade 3		Mathematics		Third Quarter
Operations & Algebraic Thinking	**Number & Operations in Base Ten**	**Number & Operations - Fractions**	**Measurement & Data**	**Geometry**
This is not a focus area during this quarter. *Continue to reinforce skills and concepts previously introduced, as necessary.*	***This is not a focus area during this quarter.*** *Continue to reinforce skills and concepts previously introduced, as necessary.*	**Chapter 8** **Understand Fractions** **NF.3.1** ☐ **I CAN** show and understand that a fraction is part of a whole, when broken into equal parts. **NF.3.2** ☐ **I CAN** identify a fraction on a number line by using 0 to 1 as the whole and breaking it into equal parts. ☐ **I CAN** label a fraction as an equal part on the number line. **Chapter 9** **Compare Fractions** **NF.3.3** ☐ **I CAN** show and understand fractions by comparing their size. ☐ **I CAN** show fractions as same-size portions by model or number line. ☐ **I CAN** change whole numbers into equivalent fractions. ☐ **I CAN** define numerator, denominator, and whole number. ☐ **I CAN** compare two fractions with the same numerator and denominator using >, =, <. ☐ **I CAN** justify my comparison by creating a visual model.	**Chapter 10** **Time, Length, Liquid Volume, and Mass** **MD.3.1** ☐ **I CAN** tell and write time to the nearest minute. ☐ **I CAN** find elapsed time intervals in minutes. ☐ **I CAN** construct a number line to solve elapsed time word problems. **MD.3.2** ☐ **I CAN** estimate and measure the capacity/ weight of objects using Metric units (grams, kilograms, liters, milliliters). ☐ **I CAN** use drawing to represent word problems. ☐ **I CAN** complete volume/mass one-step word problems using addition, subtraction, multiplication, and division. **MD.3.4** ☐ **I CAN** measure to the nearest half and fourth of an inch. ☐ **I CAN** show and understand horizontal axis. ☐ **I CAN** convert the data into a line plot.	**Chapter 8** **Understand Fractions** **G.3.2** ☐ **I CAN** break down shapes into equal parts. ☐ **I CAN** name each fractional part.

Mathematical Practices

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Vocabulary

Chapter 11

Area
Centimeter
Inverse operation
Length
Perimeter
Rectangle
Square unit
Unit square

Chapter 12

Angle
Endpoint
Intersecting lines
Line
Line segment
Octagon
Parallel lines
Pentagon

Prerequisites

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Third Grade • Fourth Quarter

Pacing Guide

Go Math! Chapters 11-12

Mathematics

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Grade 3		Mathematics		Fourth Quarter
Operations & Algebraic Thinking	**Number & Operations in Base Ten**	**Number & Operations - Fractions**	**Measurement & Data**	**Geometry**
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