

LOWER TOWNSHIP ELEMENTARY SCHOOLS
GoMATH! COMMON CORE STATE STANDARDS
 TOPIC/LESSON PACING CHART

Grade 4

EACH CHAPTER HAS AN INTRODUCTION PROJECT OR ACTIVITY, AND MATHEMATICAL VOCABULARY. PROJECTS ARE INCLUDED FOR SELECT CHAPTERS ON THIS PACING CHART, BUT MOST CHAPTERS WILL NOT INCLUDE A PROJECT. PROJECTS CAN BE ADDED AT THE TEACHER'S DISCRETION.

Place Value and Operations with Whole Numbers
Critical Area: Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends

Pre-requisite Skills Inventory (administer by September 11, 2016)			1 day
CHAPTER 1 Sept. 14 - Sept. 29	Lesson	CCSS	Timeline (12 days)
	Introduction of Chapter - Food in Space Project		1 day
Lesson 1.1	Model Place Value Relationships	4.NBT.A.1	1 day
Lesson 1.2	Read and Write Numbers	4.NBT.A.2	2 days
Lesson 1.3	Compare and Order Numbers	4.NBT.A.2	1 day
Lesson 1.4	Round Numbers	4.NBT.A.3	2 days
Lesson 1.5	Investigate * Rename Numbers	4.NBT.A.1	1 days
Lesson 1.6	Add Whole Numbers	4.NBT.B.4	1 day
Lesson 1.7	Subtract Whole Numbers	4.NBT.B.4	2 days
Lesson 1.8	Problem Solving * Comparison Problems with + --	4.NBT.B.4	1 day
Review			1 day
Test			1 day
PARCC Review	Getting Ready for PARCC - pages 11 - 18		20 minute math review

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Multiply by 1 Digit Numbers Critical Area: Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends			
CHAPTER 2 Sept. 30 - Oct. 27	Lesson	CCSS	Timeline (15 days)
Lesson 2.1	Algebra * Multiplication Comparisons	4.OA.A.1	1 day
Lesson 2.2	Algebra * Comparison Problems	4.OA.A.2	1 day
Lesson 2.3	Multiply Tens, Hundreds, and Thousands	4.NBT.B.5	1 day
Lesson 2.4	Estimate Products	4.NBT.B.5	1 day
Lesson 2.5	Investigate * Multiply Using Distributive Property	4.NBT.B.5	1 day
Lesson 2.6	Multiply Using Expanded Form	4.NBT.B.5	1 day
Lesson 2.7	Multiply Using Partial Products	4.NBT.B.5	1 day
Lesson 2.8	Multiply Using Mental Math	4.NBT.B.5	2 days
Lesson 2.9	Problem Solving * Multistep Problems	4.OA.A.3	1 day
Lesson 2.10	Multiply 2 - Digit Numbers with Regrouping	4.NBT.B.5	1 day
Lesson 2.11	Multiply 3 - Digit and 4 - Digit Numbers w/ Regrouping	4.NBT.B.5	1 day
Lesson 2.12	Algebra * Solve Multistep Problems Using Equations	4.OA.A.3	1 day
Review			1 day
Test			1 day
PARCC Review	Getting Ready for PARCC pages 1 - 4,		20 minute math review

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Multiply 2 - Digit Numbers Critical Area: Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends			
CHAPTER 3 Oct. 23 – Nov. 4	Lesson	CCSS	Timeline (9 days)
Lesson 3.1	Multiply by Tens	4.NBT.B.5	1 day
Lesson 3.2	Estimate Products	4.NBT.B.5	1 day
Lesson 3.3	Investigate * Area Models and Partial Products	4.NBT.B.5	1 day
Lesson 3.4	Multiply Using Partial Products	4.NBT.B.5	1 day
Lesson 3.5	Multiply with Regrouping	4.NBT.B.5	1 day
Lesson 3.6	Choose a Multiplication Method	4.NBT.B.5	1 day
Lesson 3.7	Problem Solving * Multiply 2-Digit Numbers	4.OA.A.3	1 day
Review			1 day
Test			1 day
PARCC Review	Getting Ready for PARCC pages 5 - 6, 19 - 20		20 minute math review

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Divide by 1 Digit Numbers Critical Area: Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends			
CHAPTER 4 Nov. 9 – Dec. 1	Lesson	CCSS	Timeline (15 days)
Lesson 4.1	Estimating Quotients Using Multiples	4.NBT.B.6	1 day
Lesson 4.2	Investigate * Remainders	4.NBT.B.6	1 day
Lesson 4.3	Interpret the Remainder	4.OA.A.3 4.NBT.B.6	1 day
Lesson 4.4	Divide Tens, Hundreds, and Thousands	4.NBT.B.6 4.NBT.A.1	1 day
Lesson 4.5	Estimate Quotients Using Compatible Numbers	4.NBT.B.6	1 day
Lesson 4.6	Investigate * Division and the Distributive Property	4.NBT.B.6	1 day
	Mid-Chapter Checkpoint	4.NBT.A.1 4.NBT.B.6 4.OA.A.3	1 day
Lesson 4.7	Investigate * Divide Using Repeated Subtraction	4.NBT.B.6	1 day
Lesson 4.8	Divide Using Partial Quotients	4.NBT.B.6	1 day
Lesson 4.9	Investigate * Model Division with Regrouping	4.NBT.B.6	1 day
Lesson 4.10	Place the First Digit	4.NBT.B.6	1 day
Lesson 4.11	Divide by 1-Digit Numbers	4.NBT.B.6	1 day
Lesson 4.12	Problem Solving * Multistep Division Problems	4.OA.A.2 4.OA.A.3 4.NBT.B.6	1 day
Review			1 day
Test			1 day
PARCC Review	Getting Ready for PARCC pages 21- 22		20 minute math review

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Factors, Multiples, and Patterns Critical Area: Developing understanding and fluency with multi-digit multiplication, and developing understanding of dividing to find quotients involving multi-digit dividends			
CHAPTER 5 Dec. 2- Dec. 15	Lesson	CCSS	Timeline (10 days)
Chapter 5.1	Model Factors	4.OA.B.4	1 day
Chapter 5.2	Factors and Divisibility	4.OA.B.4	1 day
Chapter 5.3	Problem Solving * Common Factors	4.OA.B.4	1 day
Chapter 5.4	Factors and Multiples	4.OA.B.4	1 day
Chapter 5.5	Prime and Composite Numbers	4.OA.B.4	1 day
Chapter 5.6	Algebra * Number Patterns	4.OA.C.5	1 day
Review			1 day
Test			1 day
Critical Area Performance Assessment <i>*retain for records</i>			1-2 days
PARCC REVIEW	Getting Ready for PARCC pages 7 - 10		20 minute math review
Fraction Equivalence and Comparison Critical Area: Developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers			
CHAPTER 6 Jan. 4 – Jan 20	Lesson	CCSS	Timeline (12 days)
Chapter 6.1	Investigate * Equivalent Fractions	4.NF.A.1	1 day
Chapter 6.2	Generate Equivalent Fractions	4.NF.A.1	1 day
Chapter 6.3	Simplest Form	4.NF.A.1	2 days

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Chapter 6.4	Common Denominators	4.NF.A.1	1 day
Chapter 6.5	Problem Solving * Find Equivalent Fractions	4.NF.A.1	1 day
	Mid-Chapter Checkpoint	4.NF.A.1	1 day
Chapter 6.6	Comparing Fractions Using Benchmarks	4.NF.A.2	1 day
Chapter 6.7	Compare Fractions	4.NF.A.2	1 day
Chapter 6.8	Compare and Order Fractions	4.NF.A.2	1 day
Review			1 day
Test			1 day
PARCC Review	Getting Ready for PARCC pages 23 - 26		20 minute math review
Add and Subtract Fractions Critical Area: Developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers			
CHAPTER 7 Jan. 21- Feb. 5	Lesson	CCSS	Timeline (12 days)
Chapter 7.1	Investigate * Add and Subtract Parts of a Whole	4.NF.B.3a	1 day
Chapter 7.2	Write Fractions as Sums	4.NF.B.3b	1 day
Chapter 7.3 7.4	Add and Subtract Fractions Using Models	4.NF.B.3d 4.MD.A.2	1 day

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Chapter 7.5	Add and Subtract Fractions	4.NF.B.3d 4.MD.A.2	1 day
Chapter 7.6	Renaming Fractions and Mixed Numbers	4.NF.B.3d 4.MD.A.2	1 day
Chapter 7.7	Add and Subtract Mixed Numbers	4.NF.B.3c 4.MD.A.2	1 day
Chapter 7.8	Subtraction with Renaming	4.NF.B.3c 4.MD.A.2	2 days
Chapter 7.9	Algebra * Fractions and Properties of Addition	4.NF.B.3c	1 day
Chapter 7.10	Problem Solving * Multistep Fraction Problems	4.NF.B.3d 4.MD.A.2	1 day
Review			1 day
Test			1 day
PARCC Review	Getting Ready for PARCC pages 27 - 34		20 minute math review
Multiply Fractions by Whole Numbers Critical Area: Developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers			
CHAPTER 8 Feb. 8 - Feb. 18	Lesson	CCSS	Timeline (7 days)
Lesson 8.1	Multiples of Unit Builder	4.NF.B.4a	1 day
Lesson 8.2	Multiples of Fractions	4.NF.B.4b 4.NF.B.4c	1 day

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Lesson 8.3	Multiply as Fractions	4.NF.B.4b 4.NF.B.4c	1 day
Lesson 8.4	Multiply a Fraction by a Whole Number Using Models	4.NF.B.4c	1 day
Lesson 8.5	Problem Solving * Comparison Problems with Fractions	4.NF.B.4c	1 day
Review			1 day
Test			1 day
PARCC Review	Getting Ready for PARCC page 35 - 40		20 minute math review
Relate Fractions and Decimals Critical Area: Developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions by whole numbers			
CHAPTER 9 Feb. 19 – Mar. 2	Lesson	CCSS	Timeline (9 days)
Lesson 9.1	Relate Tenths and Decimals	4.NF.C.6	1 day
Lesson 9.2	Relate Hundredths and Decimals	4.NF.C.6	1 day
Lesson 9.3	Equivalent Fractions and Decimals	4.NF.C.5	1 day
Lesson 9.4	Relate Fractions, Decimals, and Money	4.NF.C.6	1 day

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Lesson 9.5	Problem Solving * Money	4.MD.A.2	1 day
Lesson 9.6	Add Fractional Parts of 10 and 100	4.NF.C.5	1 day
Lesson 9.7	Compare Decimals	4.NF.C.7	1 day
Review			1 day
Test			1 day
Critical Area Performance Assessment *retain for records			1 day
PARCC Review	Getting Ready for PARCC pages 41 - 46, 49 - 50		20 minute math review
Two Dimensional Figures Critical Area: Understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry			
CHAPTER 10 Mar. 4-Mar. 16	Lesson	CCSS	Timeline (9 days)
Lesson 10.1	Lines, Rays, and Angles	4.G.A.1	1 day
Lesson 10.2	Classify Triangles by Angles	4.G.A.2	1 day
Lesson 10.3	Parallel Lines and Perpendicular Lines	4.G.A.1	1 day
Lesson 10.4	Classify Quadrilaterals	4.G.A.2	1 day

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Lesson 10.5	Line Symmetry	4.G.A.3	1 day
Lesson 10.6	Find and Draw Lines of Symmetry	4.G.A.3	1 day
Lesson 10.7	Problem Solving * Shape Patterns	4.OA.C.5	1 day
Review			1 day
Test			1 day
PARCC Review	Getting Ready for PARCC pages 9 - 10, 61 - 66		20 minute math review
Angles Critical Area: Understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry			
CHAPTER 11 Mar. 17 – Mar. 24	Lesson	CCSS	Timeline (6 days)
Lesson 11.1	Investigate * Angles and Fractional Parts of a Circle	4.MD.C.5a	1 day
Lesson 11.2	Degrees	4.MD.C.5a	1 day
Lesson 11.3	Measure and Draw Angles	4.MD.C.6	1 day
Lesson 11.4	Investigate * Join and Separate Angles	4.MD.C.7	1 day

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Lesson 11.5	Problem Solving * Unknown Angle Measures	4.MD.C.7	1 day
Review/Test			1 day
PARCC Review	Getting Ready for PARCC pages 55 - 60		20 minute math review
Relative Sizes of Measurement Units Critical Area: Understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry			
CHAPTER 12 Apr. 4 – Apr. 22	Lesson	CCSS	Timeline (14 days)
Lesson 12.1	Measurement Benchmarks	4.MD.A.1	1 day
Lesson 12.2	Customary Units of Length	4.MD.A.1	1 day
Lesson 12.3	Customary Units of Weight	4.MD.A.1	1 day
Lesson 12.4	Customary Units of Liquid Volume	4.MD.A.1	1 day
Lesson 12.5	Line Plots	4.MD.B.4	1 day
	Mid-Chapter Checkpoint		1 day
Lesson 12.6	Investigate * Metric Units of Length	4.MD.A.1	1 day
Lesson 12.7	Metric Units of Mass and Liquid Volume	4.MD.A.1	1 day
Lesson 12.8	Units of Time	4.MD.A.1	1 day
Lesson 12.9	Problem Solving * Elapsed Time	4.MD.A.2	1 day
Lesson 12.10	Mixed Measures	4.MD.A.2	1 day
Lesson 12.11	Algebra * Patterns in Measurement Units	4.MD.A.1	1 day
Review			1 day

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Test			1 day
PARCC Review	Getting Ready for PARCC pages 47 - 50, 53, 54		20 minute math review
Algebra: Perimeter and Area			
Critical Area: Understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry			
CHAPTER 13 Apr 25 - May 3	Lesson	CCSS	Timeline (7 days)
Lesson 13.1	Perimeter	4.MD.A.3	1 day
Lesson 13.2	Area	4.MD.A.3	1 day
Lesson 13.3	Area of Combined Rectangles	4.MD.A.3	1 day
Lesson 13.4	Find Unknown Measures	4.MD.A.3	1 day
Lesson 13.5	Problem Solving * Find the Area	4.MD.A.3	1 day
Review			1 day
Test			1 day
Critical Area Performance Assessment <i>*retain for records</i>			1 day
PARCC Review	Getting Ready for PARCC pages 65 - 66		20 minute math review

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The following lessons will be completed once chapter 13 is finished.

Getting Ready for Grade 5	
1. Add Dollars and Cents	18. Checkpoint
2. Subtract Dollars and Cents	19. Locate Points on a Grid
3. Algebra * Order of Operations	20. Area and Tiling
4. Divide by Multiples of Ten	21. Multiply 3 Factors
5. Model Division with 2-Digit Divisors	22. Find Area of the Base
6. Checkpoint Place Value through Millions	23. Checkpoint
7. Decimals and Place Value	
8. Round Decimals	
9. Place Value to Compare Decimals	
10. Decompose Multiples of 10, 100, and 1,000	
11. Number Patterns	
12. Checkpoint	
13. Add Related Fractions	
14. Subtract Related Fractions	
15. Compare Fraction Products	
16. Repeated Subtraction with Fractions	
17. Fractions and Division	