

Northpoint Horizons

Math Elevations™(Comprehensive Intervention System)
Correlated to the
Florida Sunshine State 2007 Mathematic Content Standards

Grade 5

This document provides a sampling of the extensive math directives offered throughout the *Math Elevations* program that meet the Florida Mathematics Content Standards.

Math Content Standard	Math Elevations Level E (Grade 5) Teacher's Guide Examples/Lessons
BIG IDEA 1: Develop an understanding of and fluency with division of whole numbers.	Unit 1 – Numbers and Operations Unit 2 – Computation with Whole and Decimal Numbers
MA.5.A.1.1 Describe the process of finding quotients involving multi-digit dividends using models, place value, properties and the relationship of division to multiplication.	Unit 1 – Lesson 6: <i>Divisibility</i> pp. 28-29 Unit 2 – Lesson 6: <i>Estimating Quotients</i> pp. 46-47 Lesson 7: <i>Long Division</i> pp. 48-49 Lesson 8: <i>Interpreting Remainders</i> pp. 50-51
MA.5.A.1.2 Estimate quotients or calculate them mentally depending on the context and numbers involved.	Unit 1 – Lesson 6: <i>Divisibility</i> pp. 28-29 Unit 2 – Lesson 6: <i>Estimating Quotients</i> pp. 46-47 Lesson 7: <i>Long Division</i> pp. 48-49 Lesson 8: <i>Interpreting Remainders</i> pp. 50-51
MA.5.A.1.3 Interpret solutions to division situations including those with remainders depending on the context of the problem.	Unit 2 - Lesson 6: <i>Estimating Quotients</i> pp. 46-47 Lesson 7: <i>Long Division</i> pp. 48-49 Lesson 8: <i>Interpreting Remainders</i> pp. 50-51

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<p>MA.5.A.1.4 Divide multi-digit whole numbers fluently, including solving real-world problems, demonstrating understanding of the standard algorithm and checking the reasonableness of results.</p>	<p>Unit 2 - Lesson 6: <i>Estimating Quotients</i> pp. 46-47 Lesson 7: <i>Long Division</i> pp. 48-49 Lesson 8: <i>Interpreting Remainders</i> pp. 50-51</p>
<p>BIG IDEA 2: Develop an understanding of and fluency with addition and subtraction of fractions and decimals.</p>	<p>Unit 1 – Numbers and Operations Unit 2 – Computation with Whole and Decimal Numbers Unit 4 – Computation with Fractions, Decimals, and Percents</p>
<p>MA.5.A.2.1 Represent addition and subtraction of decimals and fractions with like and unlike denominators using models, place value or properties.</p>	<p>Unit 2 – Lesson 2: <i>Addition and Subtraction of Decimal Numbers</i> pp. 38-39 Unit 4 – Lesson 1: <i>Addition and Subtraction of Fractions (Like Denominators)</i> pp. 72-73 Lesson 2: <i>Addition and Subtraction of Mixed Numbers (Like Denominators)</i> pp. 74-75 Lesson 3: <i>Addition and Subtraction of Fractions (Unlike Denominators)</i> pp. 76-77 Lesson 4: <i>Addition of Mixed Numbers (Unlike Denominators)</i> pp. 78-79 Lesson 5: <i>Subtraction of Mixed Numbers (Unlike Denominators)</i> pp. 80-81</p>
<p>MA.5.A.2.2 Add and subtract fractions and decimals fluently and verify the reasonableness of results, including in problem situations.</p>	<p>Unit 2 – Lesson 2: <i>Addition and Subtraction of Decimal Numbers</i> pp. 38-39 Unit 4 – Lesson 1: <i>Addition and Subtraction of Fractions (Like Denominators)</i> pp. 72-73 Lesson 2: <i>Addition and Subtraction of Mixed Numbers (Like Denominators)</i> pp. 74-75 Lesson 3: <i>Addition and Subtraction of Fractions (Unlike Denominators)</i> pp. 76-77</p>

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	Lesson 4: <i>Addition of Mixed Numbers (Unlike Denominators)</i> pp. 78-79 Lesson 5: <i>Subtraction of Mixed Numbers (Unlike Denominators)</i> pp. 80-81
MA.5.A.2.3 Make reasonable estimates of fraction and decimal sums and differences, and use techniques for rounding.	Unit 2 – Lesson 2: <i>Addition and Subtraction of Decimal Numbers</i> pp. 38-39
MA.5.A.2.4 Determine the prime factorization of numbers.	Unit 1 – Lesson 5: <i>Primes and Composites</i> pp. 26-27 Lesson 7: <i>Greatest Common Factor</i> pp. 30-31
BIG IDEA 3: Describe three-dimensional shapes and analyze their properties, including volume and surface area.	Unit 2 – Computation with Whole and Decimal Numbers Unit 3 – Numeration and Fractions Unit 4 – Computation with Fractions, Decimals, and Percents Unit 5 – Algebra Unit 6 – Measurement Unit 7 – Geometry Unit 8 – Data Analysis, Probability and Data Analysis
MA.5.G.3.1 Analyze and compare the properties of two-dimensional figures and three-dimensional solids (polyhedra), including the number of edges, faces, vertices, and types of faces.	Unit 7 – Lesson 1: <i>Geometric Concepts</i> pp. 126-127 Lesson 6: <i>Reflections and Rotations</i> pp. 136-137 Lesson 8: <i>Solid Figures</i> pp. 140-141
MA.5.G.3.2 Describe, define and determine surface area and volume of prisms by using appropriate units and selecting strategies and tools.	Unit 7 – Lesson 8: <i>Solid Figures</i> pp. 140-141
SUPPORTING IDEAS: Algebra	Unit 5 – Algebra Unit 8 – Data Analysis, Probability and Data Analysis

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MA.5.A.4.1 Use the properties of equality to solve numerical and real world situations.	Unit 5 – Lesson 3: <i>Algebraic Expressions</i> pp. 94-95 Lesson 4: <i>Evaluating Expressions</i> pp. 96-97 Lesson 5: <i>Solving One-Step Equations</i> pp. 98-99 Lesson 6: <i>Problem Solving</i> pp. 100-101 Lesson 7: <i>Inequalities</i> pp. 102-103
MA.5.A.4.2 Construct and describe a graph showing continuous data, such as a graph of a quantity that changes over time.	Unit 5 – Lesson 2: <i>Investigating Patterns</i> pp. 92-93 Lesson 4: <i>Evaluating Expressions</i> pp. 96-97 Unit 8 – Lesson 6: <i>Bar Graphs</i> pp. 154-155 Lesson 7: <i>Line Graphs</i> pp. 156-157
SUPPORTING IDEAS: Geometry and Measurement	Unit 5 – Algebra Unit 6 – Measurement Unit 7 – Geometry
MA.5.G.5.1 Identify and plot ordered pairs on the first quadrant of the coordinate plane.	Unit 5 – Lesson 8: <i>The Coordinate Plane</i> pp. 104-105
MA.5.G.5.2 Compare, contrast, and convert units of measure within the same dimension (length, mass, or time) to solve problems.	Unit 6 – Lesson 7: <i>Converting Within the Metric System</i> pp. 120-121 Lesson 8: <i>Converting Within the Customary System</i> pp. 122-123
MA.5.G.5.3 Solve problems requiring attention to approximation, selection of appropriate measuring tools, and precision of measurement.	Unit 6 – Lesson 7: <i>Converting Within the Metric System</i> pp. 120-121 Lesson 8: <i>Converting Within the Customary System</i> pp. 122-123
MA.5.G.5.4 Derive and apply formulas for areas of parallelograms, triangles, and trapezoids from the area of a rectangle.	Unit 6 – Lesson 1: <i>Area and Perimeter</i> pp. 108-109 Lesson 2: <i>Investigating Area and Perimeter</i> pp. 110-111 Lesson 4: <i>Area of Parallelograms</i> pp. 114-115 Lesson 5: <i>Area of Triangles</i> pp. 116-117

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SUPPORTING IDEAS: Numbers and Operations	Unit 2 – Computation with Whole and Decimal Numbers Unit 3 – Numeration and Fractions Unit 4 – Computation with Fractions, Decimals, and Percents Unit 5 – Algebra Unit 8 – Data Analysis, Probability and Data Analysis
MA.5.A.6.1 Identify and relate prime and composite numbers, factors and multiples within the context of fractions.	Unit 3 – Lesson 2: <i>Equivalent Fractions and Simplest Form</i> pp. 56-57 Lesson 6: <i>Comparing Fractions Using the LCD</i> pp. 64-65 Unit 4 – Lesson 1: <i>Addition and Subtraction of Fractions (Like Denominators)</i> pp. 72-73 Lesson 2: <i>Addition and Subtraction of Mixed Numbers (Like Denominators)</i> pp. 74-75 Lesson 3: <i>Addition and Subtraction of Fractions (Unlike Denominators)</i> pp. 76-77 Lesson 4: <i>Addition of Mixed Numbers (Unlike Denominators)</i> pp. 78-79 Lesson 5: <i>Subtraction of Mixed Numbers (Unlike Denominators)</i> pp. 80-81
MA.5.A.6.2 Use the order of operations to simplify expressions which include exponents and parentheses.	Unit 5 – Lesson 1: <i>Order of Operations</i> pp. 90-91 Lesson 3: <i>Algebraic Expressions</i> pp. 94-95
MA.5.A.6.3 Describe real-world situations using positive and negative numbers.	In Unit 1 of Level F (Grade 6) students are introduced to positive and negative integers.
MA.5.A.6.4 Compare, order, and graph integers, including integers shown on a number line.	In Unit 1 of Level F (Grade 6) students use graphs to order integers on a number line.
MA.5.A.6.5 Solve non-routine problems using various	Unit 2 –

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strategies including "solving a simpler problem" and "guess, check, and revise."	Lesson 1: <i>Addition and Subtraction of Whole Numbers</i> pp. 36-37 Lesson 2: <i>Addition and Subtraction of Decimal Numbers</i> pp. 38-39 Lesson 3: <i>Multiplying by Multiples of 10, 100, and 1,000</i> pp. 40-41 Lesson 7: <i>Long Division</i> pp. 48-49 Unit 8 – Lesson 1: <i>Possible Outcomes</i> pp. 144-145 Lesson 2: <i>Evaluating Probability</i> pp. 146-147 Lesson 3: <i>Probability Experiments</i> pp. 148-149
SUPPORTING IDEAS: Data Analysis	Unit 8 – Data Analysis, Probability and Data Analysis
MA.5.S.7.1 Construct and analyze line graphs and double bar graphs.	Unit 8 – Lesson 6: <i>Bar Graphs</i> pp. 154-155 Lesson 7: <i>Line Graphs</i> pp. 156-157
MA.5.S.7.2 Differentiate between continuous and discrete data and determine ways to represent those using graphs and diagrams.	Unit 8 – Lesson 3: <i>Probability Experiments</i> pp. 148-149 Lesson 4: <i>Mode, Median, and Range</i> pp. 150-151 Lesson 5: <i>The Mean</i> pp. 152-153 Lesson 6: <i>Bar Graphs</i> pp. 154-155 Lesson 7: <i>Line Graphs</i> pp. 156-157 Lesson 8: <i>Circle Graphs</i> pp. 158-159