

Northpoint Horizons
Math Elevations[™]
Correlated to the
Florida Sunshine State 2007 Mathematics Content Standards

Grade 6

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

Math Content Standard	<i>Math Elevations</i> Level F Teacher's Guide Examples/Lessons
BIG IDEA 1: Develop an understanding of and fluency with multiplication and division of fractions and decimals.	Unit 2 – Computation with Integers and Decimals Unit 3 – Fractions, Decimals, and Percents Unit 4 – Computation with Fractions
MA.6.A.1.1 Explain and justify procedures for multiplying and dividing fractions and decimals.	Unit 2 – Lesson 6: <i>Multiplying Decimals</i> pp. 46-47 Lesson 7: <i>Division</i> pp. 48-49 Lesson 8: <i>Word Problems</i> pp. 50-51 Unit 3 – Lesson 8: <i>Solving Proportions</i> pp. 68-69 Unit 4 – Lesson 4: <i>Multiplying Fractions</i> pp. 78-79 Lesson 5: <i>Multiplying Mixed Numbers</i> pp. 80-81 Lesson 6: <i>Dividing Fractions by Whole Numbers</i> pp. 82-83 Lesson 7: <i>Dividing Fractions by Fractions</i> pp. 84-85 Lesson 8: <i>Dividing Mixed Numbers</i> pp. 86-87
MA.6.A.1.2 Multiply and divide fractions and decimals efficiently.	Unit 2 – Lesson 6: <i>Multiplying Decimals</i> pp. 46-47 Lesson 7: <i>Division</i> pp. 48-49

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	Lesson 8: <i>Word Problems</i> pp. 50-51 Unit 3 – Lesson 8: <i>Solving Proportions</i> pp. 68-69 Unit 4 – Lesson 4: <i>Multiplying Fractions</i> pp. 78-79 Lesson 5: <i>Multiplying Mixed Numbers</i> pp. 80-81 Lesson 6: <i>Dividing Fractions by Whole Numbers</i> pp. 82-83 Lesson 7: <i>Dividing Fractions by Fractions</i> pp. 84-85 Lesson 8: <i>Dividing Mixed Numbers</i> pp. 86-87
MA.6.A.1.3 Solve real-world problems involving multiplication and division of fractions and decimals.	Unit 2 – Lesson 6: <i>Multiplying Decimals</i> pp. 46-47 Lesson 7: <i>Division</i> pp. 48-49 Lesson 8: <i>Word Problems</i> pp. 50-51 Unit 3 – Lesson 8: <i>Solving Proportions</i> pp. 68-69 Unit 4 – Lesson 4: <i>Multiplying Fractions</i> pp. 78-79 Lesson 5: <i>Multiplying Mixed Numbers</i> pp. 80-81 Lesson 6: <i>Dividing Fractions by Whole Numbers</i> pp. 82-83 Lesson 7: <i>Dividing Fractions by Fractions</i> pp. 84-85 Lesson 8: <i>Dividing Mixed Numbers</i> pp. 86-87
BIG IDEA 2: Connect ratio and rates to multiplication and division.	Unit 3 – Fractions, Decimals, and Percents
MA.6.A.2.1 Use reasoning about multiplication and division to solve ratio and rate problems.	Unit 3 – Lesson 7: <i>Ratios and Proportions</i> pp. 66-67 Lesson 8: <i>Solving Proportions</i> pp. 68-69
MA.6.A.2.2 Interpret and compare ratios and rates.	Unit 3 – Lesson 7: <i>Ratios and Proportions</i> pp. 66-67 Lesson 8: <i>Solving Proportions</i> pp. 68-69
BIG IDEA 3: Write, interpret, and use mathematical expressions and equations.	Unit 5 – Algebra Unit 7 - Measurement
MA.6.G.3.1 Write and evaluate mathematical	Unit 5 –

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expressions that correspond to given situations.	Lesson 3: <i>One-Step Algebraic Expressions</i> pp. 94-95 Lesson 4: <i>Two-Step Algebraic Expressions</i> pp. 96-97 Lesson 6: <i>Word Problems</i> pp. 100-101
MA.6.G.3.2 Write, solve, and graph one- and two-step linear equations and inequalities.	Unit 5 – Lesson 5: <i>Solving Equations</i> pp. 98-99 Lesson 7: <i>Graphing Algebraic Equations</i> pp. 102-103 Lesson 8: <i>Inequalities</i> pp. 104-105
MA.6.G.3.3 Works backward with two-step function rules to undo expressions.	Unit 5 – Lesson 4: <i>Two-Step Algebraic Expressions</i> pp. 96-97 Lesson 5: <i>Solving Equations</i> pp. 98-99
MA.6.G.3.4 Solve problems given a formula.	Unit 7 – Lesson 2: <i>Perimeter</i> pp. 128-129 Lesson 4: <i>Angles in a Triangle</i> pp. 132-133 Lesson 5: <i>Areas of Rectangles and Parallelograms</i> pp. 134-135 Lesson 6: <i>Area of Triangles</i> pp. 136-137 Lesson 7: <i>Area of Irregular Figures</i> pp. 138-139
MA.6.G.3.5 Apply the Commutative, Associative, and Distributive Properties to show that two expressions are equivalent.	Unit 5 – Lesson 1: <i>Order of Operations</i> pp. 90-91 Lesson 3: <i>One-Step Algebraic Expressions</i> pp. 94-95 Lesson 4: <i>Two-Step Algebraic Expressions</i> pp. 96-97 Lesson 5: <i>Solving Equations</i> pp. 98-99
MA.6.G.3.6 Construct and analyze tables, graphs and equations to describe linear functions and other simple relations using both common language and algebraic notation.	Unit 5 – Lesson 2: <i>Patterns</i> pp. 92-93 Lesson 3: <i>One-Step Algebraic Expressions</i> pp. 94-95 Lesson 4: <i>Two-Step Algebraic Expressions</i> pp. 96-97 Lesson 5: <i>Solving Equations</i> pp. 98-99 Lesson 6: <i>Word Problems</i> pp. 100-101 Lesson 7: <i>Graphing Algebraic Equations</i> pp. 102-103 Lesson 8: <i>Inequalities</i> pp. 104-105
SUPPORTING IDEAS: Geometry and Measurement	Unit 6 – Geometry Unit 7 - Measurement

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MA.6.G.5.1 Understand the concept of π , know common estimates of π (3.14; 22/7) and use these values to estimate and calculate the circumference and the area of circles.	Unit 6 – Lesson 4: <i>Circles</i> pp.114-115
MA.6.G.5.2 Find the perimeters and areas of composite two-dimensional figures, including non-rectangular figures (such as semicircles) using various strategies.	Unit 7 – Lesson 2: <i>Perimeter</i> pp. 128-129 Lesson 5: <i>Areas of Rectangles and Parallelograms</i> pp. 134-135 Lesson 6: <i>Area of Triangles</i> pp. 136-137 Lesson 7: <i>Area of Irregular Figures</i> pp. 138-139
MA.6.G.5.3 Determine a missing dimension of a plane figure or prism, given its area or volume and some of the dimensions, or determine the area or volume given the dimensions.	Unit 7 – Lesson 2: <i>Perimeter</i> pp. 128-129 Lesson 5: <i>Areas of Rectangles and Parallelograms</i> pp. 134-135 Lesson 6: <i>Area of Triangles</i> pp. 136-137 Lesson 7: <i>Area of Irregular Figures</i> pp. 138-139 Lesson 8: <i>Volume</i> pp. 140-141
SUPPORTING IDEAS: Numbers and Operations	Unit 2 – Computation with Integers and Decimals Unit 3 – Fractions, Decimals, and Percents
MA.6.A.6.1 Use equivalent forms of fractions, decimals, and percents to solve problems.	Unit 3 – Lesson 1: <i>Simplest Form</i> pp. 54-55 Lesson 2: <i>Comparing and Ordering Fractions</i> pp. 56-57 Lesson 3: <i>Converting Fractions to Decimals</i> pp. 58-59 Lesson 4: <i>Understanding Percents</i> pp. 60-61 Lesson 5: <i>Converting Between Percents, Fractions, and Decimals</i> pp. 62-63 Lesson 6: <i>More Converting Fractions</i> pp. 64-65 Lesson 7: <i>Ratios and Proportions</i> pp. 66-67 Lesson 8: <i>Solving Proportions</i> pp. 68-69
MA.6.A.6.2 Compare and order fractions, decimals, and percents, including finding their approximate location on a number line.	Unit 3 – Lesson 2: <i>Comparing and Ordering Fractions</i> pp. 56-57

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MA.6.A.6.3 Estimate the results of computations with fractions, decimals, and percents and judge the reasonableness of the results.	Unit 2 – Lesson 3: <i>Addition and Subtraction</i> pp. 40-41 Lesson 6: <i>Multiplying Decimals</i> pp. 46-47 Lesson 7: <i>Ratios and Proportions</i> pp. 66-67
SUPPORTING IDEAS: Data Analysis	Unit 8 – Probability, Statistics, and Data Analysis
MA.6.S.7.1 Determine the measures of central tendency (mean, median, and mode) and variability (range) for a given set of data.	Unit 8 – Lesson 1: <i>Mean, Mode, and Median</i> pp. 144-145 Lesson 2: <i>Line Plots and Stem-and-Leaf Plots</i> pp. 146-147 Lesson 4: <i>Conducting Surveys</i> pp. 150-151
MA.6.S.7.2 Select and analyze the measures of central tendency or variability to represent, describe, analyze and/or summarize a data set for the purposes of answering questions appropriately.	Unit 8 – Lesson 1: <i>Mean, Mode, and Median</i> pp. 144-145 Lesson 2: <i>Line Plots and Stem-and-Leaf Plots</i> pp. 146-147 Lesson 3: <i>Scales and Bar Graphs</i> pp. 148-149 Lesson 4: <i>Conducting Surveys</i> pp. 150-151 Lesson 5: <i>Displaying Data</i> pp. 152-153 Lesson 6: <i>Line Graphs</i> pp. 154-155