

Northpoint Horizons

***Math Elevations*[™]
Correlated to the
Florida Sunshine State 1996 Mathematics Content Standards**

Grade 8

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 H Teacher's Guide Examples/Lessons
Number Sense, Concepts, and Operations	
Standard 1:	
The student understands the different ways numbers are represented and used in the real world. (MA.A.1.3)	
1. associates verbal names, written word names, and standard numerals with integers, fractions, decimals; numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals; absolute value; and ratios.	Unit 1 - Lesson 1: Integers and Absolute Value pp. 18-20 Lesson 7: Exponents pp. 37-39 Unit 2 - Lesson 6: Rules of Exponents pp. 62-64 Lesson 7: Negative and Zero Exponents pp. 65-67 Lesson 8: Scientific Notation pp. 68-70 Unit 4 - Lesson 1: Ratios and Rates pp. 104-107 Lesson 4: Fractions, Decimals, and Percents pp. 114-116 Lesson 5: Solving Percent Problems Using a Proportion pp. 117-119 Lesson 6: Using Proportions to Solve Other Percent Problems pp. 120-123 Lesson 7: Percent of Change pp. 124-126 Lesson 8: Percent Applications pp. 127-129

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2. understands the relative size of integers, fractions, and decimals; numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals; absolute value; and ratios.	Unit 1 - Lesson 1: Integers and Absolute Value pp. 18-20 Lesson 7: Exponents pp. 37-39 Unit 2 - Lesson 6: Rules of Exponents pp. 62-64 Lesson 7: Negative and Zero Exponents pp. 65-67 Lesson 8: Scientific Notation pp. 68-70 Unit 4 - Lesson 1: Ratios and Rates pp. 104-107 Lesson 4: Fractions, Decimals, and Percents pp. 114-116 Lesson 5: Solving Percent Problems Using a Proportion pp. 117-119 Lesson 6: Using Proportions to Solve Other Percent Problems pp. 120-123 Lesson 7: Percent of Change pp. 124-126 Lesson 8: Percent Applications pp. 127-129
3. understands concrete and symbolic representations of rational numbers and irrational numbers in real-world situations.	Unit 1 - Lesson 1: Integers and Absolute Value pp. 18-20 Lesson 7: Exponents pp. 37-39 Unit 2 - Lesson 6: Rules of Exponents pp. 62-64

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	Lesson 7: Negative and Zero Exponents pp. 65-67 Lesson 8: Scientific Notation pp. 68-70 Unit 4 - Lesson 1: Ratios and Rates pp. 104-107 Lesson 4: Fractions, Decimals, and Percents pp. 114-116 Lesson 5: Solving Percent Problems Using a Proportion pp. 117-119 Lesson 6: Using Proportions to Solve Other Percent Problems pp. 120-123 Lesson 7: Percent of Change pp. 124-126 Lesson 8: Percent Applications pp. 127-129
4. understands that numbers can be represented in a variety of equivalent forms, including integers, fractions, decimals, percents, scientific notation, exponents, radicals, and absolute value.	Unit 4 - Lesson 4: Fractions, Decimals, and Percents pp. 114-116
Standard 2:	
The student understands number systems. (MA.A.2.3)	
1. understands and uses exponential and scientific notation.	Unit 1 - Lesson 7: Exponents pp. 37-39 Unit 2 - Lesson 6: Rules of Exponents pp. 62-64

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	Lesson 7: Negative and Zero Exponents pp. 65-67 Lesson 8: Scientific Notation pp. 68-70
2. understands the structure of number systems other than the decimal number system.	Unit 1 - Lesson 1: Integers and Absolute Value pp. 18-20
Standard 3:	
The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving. (MA.A.3.3)	
1. understands and explains the effects of addition, subtraction, multiplication, and division on whole numbers, fractions, including mixed numbers, and decimals, including the inverse relationships of positive and negative numbers.	Unit 1 - Lesson 2: Adding Integers Using a Number Line pp. 21-23 Lesson 3: Adding Integers Using Absolute Value pp. 24-27 Lesson 4: Subtracting Integers pp. 28-30 Lesson 5: Multiplying Integers pp. 31-33 Lesson 6: Dividing Integers pp. 34-36 Unit 2 - Lesson 4: Adding and Subtracting Fractions pp. 55-57

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Math Content Standard	<i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons
	Lesson 5: Multiplying and Dividing Fractions and Mixed Numbers pp. 58-61 Unit 3 - Lesson 4: Solving Equations Using Addition or Subtraction pp. 84-86 Lesson 5: Solving Equations Using Multiplication or Division pp. 87-89 Lesson 6: Solving Inequalities by Addition and Subtraction pp. 90-93 Lesson 7: Solving Inequalities Using Multiplication and Division pp. 94-97
2. selects the appropriate operation to solve problems involving addition, subtraction, multiplication, and division of rational numbers, ratios, proportions, and percents, including the appropriate application of the algebraic order of operations.	Unit 1 - Lesson 2: Adding Integers Using a Number Line pp. 21-23 Lesson 3: Adding Integers Using Absolute Value pp. 24-27 Lesson 4: Subtracting Integers pp. 28-30 Lesson 5: Multiplying Integers pp. 31-33 Lesson 6: Dividing Integers pp. 34-36 Unit 2 - Lesson 4: Adding and Subtracting Fractions pp. 55-57

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	Lesson 5: Multiplying and Dividing Fractions and Mixed Numbers pp. 58-61 Unit 3 - Lesson 4: Solving Equations Using Addition or Subtraction pp. 84-86 Lesson 5: Solving Equations Using Multiplication or Division pp. 87-89 Lesson 6: Solving Inequalities by Addition and Subtraction pp. 90-93 Lesson 7: Solving Inequalities Using Multiplication and Division pp. 94-97 Unit 4 - Lesson 1: Ratios and Rates pp. 104-107 Lesson 4: Fractions, Decimals, and Percents pp. 114-116 Lesson 5: Solving Percent Problems Using a Proportion pp. 117-119 Lesson 6: Using Proportions to Solve Other Percent Problems pp. 120-123 Lesson 7: Percent of Change pp. 124-126 Lesson 8: Percent Applications pp. 127-129
3. adds, subtracts, multiplies, and divides whole numbers, decimals,	Unit 1 -

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<p>and fractions, including mixed numbers, to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator.</p>	<p>Lesson 2: Adding Integers Using a Number Line pp. 21-23 Lesson 3: Adding Integers Using Absolute Value pp. 24-27 Lesson 4: Subtracting Integers pp. 28-30 Lesson 5: Multiplying Integers pp. 31-33 Lesson 6: Dividing Integers pp. 34-36 Unit 2 - Lesson 4: Adding and Subtracting Fractions pp. 55-57 Lesson 5: Multiplying and Dividing Fractions and Mixed Numbers pp. 58-61 Unit 3 - Lesson 4: Solving Equations Using Addition or Subtraction pp. 84-86 Lesson 5: Solving Equations Using Multiplication or Division pp. 87-89 Lesson 6: Solving Inequalities by Addition and Subtraction pp. 90-93 Lesson 7: Solving Inequalities Using Multiplication and Division pp. 94-97</p>
Standard 4:	

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The student uses estimation in problem solving and computation. (MA.A.4.3)	
1. uses estimation strategies to predict results and to check the reasonableness of results.	Unit 1 - Lesson 8: Square Roots pp. 40-42 Unit 2 - Lesson 4: Adding and Subtracting Fractions pp. 55-57
Standard 5:	
The student understands and applies theories related to numbers. (MA.A.5.3)	
1. uses concepts about numbers, including primes, factors, and multiples, to build number sequences.	Unit 2 - Lesson 1: Factors and Prime Factorization pp. 46-48 Lesson 2: Greatest Common Factor (GCF) pp. 49-51 Lesson 3: Least Common Multiple (LCM) pp. 52-54
Measurement	
Standard 1:	
The student measures quantities in the real world and uses the measures to solve problems. (MA.B.1.3)	
1. uses concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two- and	Unit 7 - Lesson 1: Area of a Trapezoid pp. 190-192

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Math Content Standard	<i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons
three-dimensional shapes, including rectangular solids and cylinders.	Lesson 2: Circumference of a Circle pp. 193-195 Lesson 3: Area of a Circle pp. 196-198 Lesson 4: Surface Area of a Prism pp. 199-201 Lesson 5: Surface Area of a Cylinder pp. 202-204 Lesson 6: Surface Area of a Pyramid and a Cone pp. 205-207 Lesson 7: Volume of a Prism and a Cylinder pp. 208-210 Lesson 8: Volume of a Pyramid and a Cone pp. 211-213
2. uses concrete and graphic models to derive formulas for finding rates, distance, time, and angle measures.	Unit 4 - Lesson 1: Ratios and Rates pp. 104-107 Unit 6 - Lesson 1: Angles pp. 160-163 Lesson 2: Angles in Parallel Lines Cut by a Transversal pp. 164-166
3. understands and describes how the change of a figure in such dimensions as length, width, height, or radius affects its other measurements such as perimeter, area, surface area, and volume.	Unit 7 - Lesson 1: Area of a Trapezoid pp. 190-192 Lesson 2: Circumference of a Circle pp. 193-195 Lesson 3: Area of a Circle pp. 196-198 Lesson 4: Surface Area of a Prism pp. 199-201 Lesson 5: Surface Area of a Cylinder pp. 202-204

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Math Content Standard	<i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons
	Lesson 6: Surface Area of a Pyramid and a Cone pp. 205-207 Lesson 7: Volume of a Prism and a Cylinder pp. 208-210 Lesson 8: Volume of a Pyramid and a Cone pp. 211-213
4. constructs, interprets, and uses scale drawings such as those based on number lines and maps to solve real-world problems.	Unit 4 - Lesson 3: Scale Drawings and Models pp. 111-113
Standard 2:	
The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary). (MA.B.2.3)	
1. uses direct (measured) and indirect (not measured) measures to compare a given characteristic in either metric or customary units.	Unit 7 - Lesson 1: Area of a Trapezoid pp. 190-192 Lesson 2: Circumference of a Circle pp. 193-195 Lesson 3: Area of a Circle pp. 196-198 Lesson 4: Surface Area of a Prism pp. 199-201 Lesson 5: Surface Area of a Cylinder pp. 202-204 Lesson 6: Surface Area of a Pyramid and a Cone pp. 205-207 Lesson 7: Volume of a Prism and a Cylinder pp.

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Math Content Standard	<i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons
	208-210 Lesson 8: Volume of a Pyramid and a Cone pp. 211-213
2. solves problems involving units of measure and converts answers to a larger or smaller unit within either the metric or customary system.	Unit 7 - Lesson 1: Area of a Trapezoid pp. 190-192 Lesson 2: Circumference of a Circle pp. 193-195 Lesson 3: Area of a Circle pp. 196-198 Lesson 4: Surface Area of a Prism pp. 199-201 Lesson 5: Surface Area of a Cylinder pp. 202-204 Lesson 6: Surface Area of a Pyramid and a Cone pp. 205-207 Lesson 7: Volume of a Prism and a Cylinder pp. 208-210 Lesson 8: Volume of a Pyramid and a Cone pp. 211-213
Standard 4:	
The student selects and uses appropriate units and instruments for measurement to achieve the degree of precision and accuracy required in real-world situations. (MA.B.4.3)	
1. selects appropriate units of measurement and determines and applies significant digits in a real-world context. (Significant digits	Unit 7 - Lesson 1: Area of a Trapezoid pp. 190-192

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Math Content Standard	<i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons
should relate to both instrument precision and to the least precise unit of measurement.)	Lesson 2: Circumference of a Circle pp. 193-195 Lesson 3: Area of a Circle pp. 196-198 Lesson 4: Surface Area of a Prism pp. 199-201 Lesson 5: Surface Area of a Cylinder pp. 202-204 Lesson 6: Surface Area of a Pyramid and a Cone pp. 205-207 Lesson 7: Volume of a Prism and a Cylinder pp. 208-210 Lesson 8: Volume of a Pyramid and a Cone pp. 211-213
2. selects and uses appropriate instruments, technology, and techniques to measure quantities in order to achieve specified degrees of accuracy in a problem situation.	Unit 7 - Lesson 1: Area of a Trapezoid pp. 190-192 Lesson 2: Circumference of a Circle pp. 193-195 Lesson 3: Area of a Circle pp. 196-198 Lesson 4: Surface Area of a Prism pp. 199-201 Lesson 5: Surface Area of a Cylinder pp. 202-204 Lesson 6: Surface Area of a Pyramid and a Cone pp. 205-207 Lesson 7: Volume of a Prism and a Cylinder pp. 208-210 Lesson 8: Volume of a Pyramid and a Cone pp. 211-213

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Math Content Standard	<i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons
Geometry and Spatial Sense	
Standard 1: The student describes, draws, identifies, and analyzes two- and three-dimensional shapes. (MA.C.1.3)	
1. understands the basic properties of, and relationships pertaining to, regular and irregular geometric shapes in two and three dimensions.	Unit 6 - Lesson 1: Angles pp. 160-163 Lesson 2: Angles in Parallel Lines Cut by a Transversal pp. 164-166 Lesson 3: Polygons pp. 167-170 Lesson 4: Sum of Angles in Polygons pp. 171-173 Lesson 5: Congruent Triangles pp. 174-176 Lesson 6: Similarity and Dilations pp. 177-179 Lesson 7: Reflections and Translations in the Coordinate Plane pp. 180-183 Lesson 8: Rotations in the Coordinate Plane pp. 184-186
Standard 2:	
The student visualizes and illustrates ways in which shapes can be combined, subdivided, and changed. (MA.C.2.3)	
1. understands the geometric concepts of symmetry, reflection, congruency, similarity, perpendicularity, parallelism, and transformations, including flips, slides, turns, and enlargements.	Unit 6 - Lesson 2: Angles in Parallel Lines Cut by a Transversal pp. 164-166

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Math Content Standard	<i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons
	Lesson 5: Congruent Triangles pp. 174-176 Lesson 6: Similarity and Dilations pp. 177-179 Lesson 7: Reflections and Translations in the Coordinate Plane pp. 180-183 Lesson 8: Rotations in the Coordinate Plane pp. 184-186
Standard 3:	
The student uses coordinate geometry to locate objects in both two and three dimensions and to describe objects algebraically. (MA.C.3.3)	
1. represents and applies geometric properties and relationships to solve real-world and mathematical problems.	Unit 6 - Lesson 7: Reflections and Translations in the Coordinate Plane pp. 180-183 Lesson 8: Rotations in the Coordinate Plane pp. 184-186
2. identifies and plots ordered pairs in all four quadrants of a rectangular coordinate system (graph) and applies simple properties of lines.	Unit 6 - Lesson 7: Reflections and Translations in the Coordinate Plane pp. 180-183 Lesson 8: Rotations in the Coordinate Plane pp. 184-186
Algebraic Thinking	

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Standard 1:	
The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions. (MA.D.1.3)	
1. describes a wide variety of patterns, relationships, and functions through models, such as manipulatives, tables, graphs, expressions, equations, and inequalities.	Unit 3 - Lesson 3: Substituting Values for Variables in Equations pp. 81-83 Lesson 4: Solving Equations Using Addition or Subtraction pp. 84-86 Lesson 5: Solving Equations Using Multiplication or Division pp. 87-89 Lesson 6: Solving Inequalities by Addition and Subtraction pp. 90-93 Lesson 7: Solving Inequalities Using Multiplication and Division pp. 94-97 Unit 5 - Lesson 1: Solving Two-Step Equations pp. 132-134 Lesson 2: Solving Multi-Step Equations pp. 135-137 Lesson 3: Translating and Solving Word Problems pp. 138-140 Lesson 4: Relations and Functions pp. 141-143 Lesson 5: Two-Variable Equations pp. 144-145 Lesson 6: Graphing Linear Functions pp. 147-150

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	Lesson 7: Interpreting Linear Functions pp. 151-153 Lesson 8: Slope pp. 154-157
2. creates and interprets tables, graphs, equations, and verbal descriptions to explain cause-and-effect relationships.	Unit 3 - Lesson 3: Substituting Values for Variables in Equations pp. 81-83 Lesson 4: Solving Equations Using Addition or Subtraction pp. 84-86 Lesson 5: Solving Equations Using Multiplication or Division pp. 87-89 Lesson 6: Solving Inequalities by Addition and Subtraction pp. 90-93 Lesson 7: Solving Inequalities Using Multiplication and Division pp. 94-97 Unit 5 - Lesson 1: Solving Two-Step Equations pp. 132-134 Lesson 2: Solving Multi-Step Equations pp. 135-137 Lesson 3: Translating and Solving Word Problems pp. 138-140 Lesson 4: Relations and Functions pp. 141-143 Lesson 5: Two-Variable Equations pp. 144-146 Lesson 6: Graphing Linear Functions pp. 147-150 Lesson 7: Interpreting Linear Functions pp. 151-153

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Math Content Standard	<i>Math Elevations</i> Level H Teacher's Guide Examples/Lessons
	Lesson 8: Slope pp. 154-157
Standard 2:	
The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations. (MA.D.2.3)	
1. represents and solves real-world problems graphically, with algebraic expressions, equations, and inequalities.	Unit 5 - Lesson 6: Graphing Linear Functions pp. 147-150
2. uses algebraic problem-solving strategies to solve real-world problems involving linear equations and inequalities.	Unit 3 - Lesson 3: Substituting Values for Variables in Equations pp. 81-83 Lesson 4: Solving Equations Using Addition or Subtraction pp. 84-86 Lesson 5: Solving Equations Using Multiplication or Division pp. 87-89 Lesson 6: Solving Inequalities by Addition and Subtraction pp. 90-93 Lesson 7: Solving Inequalities Using Multiplication and Division pp. 94-97 Unit 5 - Lesson 1: Solving Two-Step Equations pp. 132-134 Lesson 2: Solving Multi-Step Equations pp. 135-137

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	Lesson 3: Translating and Solving Word Problems pp. 138-140 Lesson 4: Relations and Functions pp. 141-143 Lesson 5: Two-Variable Equations pp. 144-146 Lesson 6: Graphing Linear Functions pp. 147-150 Lesson 7: Interpreting Linear Functions pp. 151-153 Lesson 8: Slope pp. 154-157
Data Analysis and Probability	
Standard 1:	
The student understands and uses the tools of data analysis for managing information. (MA.E.1.3)	
1. collects, organizes, and displays data in a variety of forms, including tables, line graphs, charts, bar graphs, to determine how different ways of presenting data can lead to different interpretations.	Unit 8 - Lesson 4: Scatter Plots Lesson 5: Box-and-Whiskers Plots Lesson 6: Line Graphs Lesson 7: Circle Graphs
2. understands and applies the concepts of range and central tendency (mean, median, and mode).	Unit 8 - Lesson 3: Mean, Median, and Mode pp. 224-226
3. analyzes real-world data by applying appropriate formulas for measures of central tendency and organizing data in a quality display, using appropriate technology, including calculators and computers.	Unit 8 - Lesson 3: Mean, Median, and Mode pp. 224-226

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Standard 2:	
The student identifies patterns and makes predictions from an orderly display of data using concepts of probability and statistics. (MA.E.2.3)	
1. compares experimental results with mathematical expectations of probabilities.	Unit 8 - Lesson 2: Making Predictions pp. 220-223
2. determines odds for and odds against a given situation.	Lesson 2: Making Predictions pp. 220-223
Standard 3:	
The student uses statistical methods to make inferences and valid arguments about real-world situations. (MA.E.3.3)	
1. formulates hypotheses, designs experiments, collects and interprets data, and evaluates hypotheses by making inferences and drawing conclusions based on statistics (range, mean, median, and mode) and tables, graphs, and charts.	Unit 8 - Lesson 3: Mean, Median, and Mode pp. 224-226
2. identifies the common uses and misuses of probability and statistical analysis in the everyday world.	Unit 8 - Lesson 8: Appropriate Graphs pp. 241-243