

## Northpoint Horizons

### *Math Elevations*<sup>™</sup> Correlated to the Florida Sunshine State 1996 Mathematics Content Standards

Grade 7

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

<b>Math Content Standard</b>	<b><i>Math Elevations</i> Level G Teacher's Guide Examples/Lessons</b>
<b>Number Sense, Concepts, and Operations</b>	
<b>Standard 1:</b>	
<b>The student understands the different ways numbers are represented and used in the real world. (MA.A.1.3)</b>	
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: Decimal Place Value pp. 18-21 Lesson 2: Exponents pp. 22-24 Lesson 4: Scientific Notation pp. 28-30 Unit 2 - Lesson 8: Fraction and Decimals pp. 68-71 Unit 3 - Lesson 1: Introduction to Integers pp. 74-76 Lesson 4: Absolute Value pp. 83-85 Unit 5 - Lesson 1: Ratios pp. 128-131 Lesson 5: Fractions, Decimals, and Percents pp. 141-143 Lesson 6: Percent of a Number pp. 144-146 Lesson 7: Percent Problems pp. 147-150 Lesson 8: Percent of Change pp. 148-153
2. understands the relative size of integers, fractions, and decimals; numbers expressed as percents; numbers with	Unit 1 - Lesson 1: Decimal Place Value pp. 18-21

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exponents; numbers in scientific notation; radicals; absolute value; and ratios.	Lesson 2: Exponents pp. 22-24 Lesson 4: Scientific Notation pp. 28-30 Unit 2 - Lesson 8: Fraction and Decimals pp. 68-71 Unit 3 - Lesson 1: Introduction to Integers pp. 74-76 Lesson 4: Absolute Value pp. 83-85 Unit 5 - Lesson 1: Ratios pp. 128-131 Lesson 5: Fractions, Decimals, and Percents pp. 141-143 Lesson 6: Percent of a Number pp. 144-146 Lesson 7: Percent Problems pp. 147-150 Lesson 8: Percent of Change pp. 148-153
3. understands concrete and symbolic representations of rational numbers and irrational numbers in real-world situations.	Unit 1 - Lesson 1: Decimal Place Value pp. 18-21 Lesson 2: Exponents pp. 22-24 Lesson 3: Square Roots pp. 25-27 Lesson 4: Scientific Notation pp. 28-30 Lesson 5: Prime Factorization pp. 31-33 Unit 3 - Lesson 1: Introduction to Integers pp. 74-76 Lesson 4: Absolute Value pp. 83-85

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	Unit 5 - Lesson 1: Ratios pp. 128-131 Lesson 5: Fractions, Decimals, and Percents pp. 141-143 Lesson 6: Percent of a Number pp. 144-146 Lesson 7: Percent Problems pp. 147-150 Lesson 8: Percent of Change pp. 148-153
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 1 - Lesson 8: Fractions and Mixed Numbers pp. 40-43 Unit 2 - Lesson 8: Fraction and Decimals pp. 68-71 Unit 5 - Lesson 5: Fractions, Decimals, and Percents pp. 151-153
<b>Standard 2:</b>	
<b>The student understands number systems. (MA.A.2.3)</b>	
1. understands and uses exponential and scientific notation.	Unit 1 - Lesson 2: Exponents pp. 22-24 Lesson 4: Scientific Notation pp. 28-30
2. understands the structure of number systems other than the decimal number system.	Unit 1 - Lesson 8: Fractions and Mixed Numbers pp. 40-43 Unit 3 - Lesson 1: Introduction to Integers pp. 74-76

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<b>Standard 3:</b>	
<b>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)</b>	
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 2 - Lesson 1: Adding and Subtracting Fractions pp. 46-48 Lesson 2: Adding and Subtracting Mixed Numbers pp. 49-51 Lesson 3: Multiplying Fractions and Mixed Numbers pp. 52-54 Lesson 4: Dividing Fractions and Mixed Numbers pp. 55-57 Lesson 5: Adding and Subtracting Decimals pp. 58-60 Lesson 6: Multiplying Decimals pp. 61-63 Lesson 7: Dividing Decimals pp. 64-67 Unit 3 - Lesson 2: Adding Integers pp. 77-79 Lesson 3: Subtracting Integers pp. 80-82 Lesson 5: Multiplying Integers pp. 86-88 Lesson 6: Dividing Integers pp. 89-91 Lesson 7: Commutative and Associative Properties pp. 92-94 Lesson 8: Distributive Property pp. 95-97

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	Unit 4 - Lesson 1: Order of Operations pp. 100-102
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 2 - Lesson 1: Adding and Subtracting Fractions pp. 46-48 Lesson 2: Adding and Subtracting Mixed Numbers pp. 49-51 Lesson 3: Multiplying Fractions and Mixed Numbers pp. 52-54 Lesson 4: Dividing Fractions and Mixed Numbers pp. 55-57 Lesson 5: Adding and Subtracting Decimals pp. 58-60 Lesson 6: Multiplying Decimals pp. 61-63 Lesson 7: Dividing Decimals pp. 64-67 Unit 3 - Lesson 2: Adding Integers pp. 77-79 Lesson 3: Subtracting Integers pp. 80-82 Lesson 5: Multiplying Integers pp. 86-88 Lesson 6: Dividing Integers pp. 89-91 Lesson 7: Commutative and Associative Properties pp. 92-94 Lesson 8: Distributive Property pp. 95-97 Unit 4 - Lesson 1: Order of Operations pp. 100-102 Unit 5 -

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	Lesson 1: Ratios pp. 128-131 Lesson 3: Writing and Solving Proportions pp. 135-137 Lesson 5: Fractions, Decimals, and Percents pp. 141-143 Lesson 6: Percent of a Number pp. 144-146 Lesson 7: Percent Problems pp. 147-149 Lesson 8: Percent of Change pp. 151-153
3. adds, subtracts, multiplies, and divides whole numbers, decimals, and fractions, including mixed numbers, to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator.	Unit 2 - Lesson 1: Adding and Subtracting Fractions pp. 46-48 Lesson 2: Adding and Subtracting Mixed Numbers pp. 49-51 Lesson 3: Multiplying Fractions and Mixed Numbers pp. 52-54 Lesson 4: Dividing Fractions and Mixed Numbers pp. 55-57 Lesson 5: Adding and Subtracting Decimals pp. 58-60 Lesson 6: Multiplying Decimals pp. 61-63 Lesson 7: Dividing Decimals pp. 64-67 Unit 3 - Lesson 2: Adding Integers pp. 77-79 Lesson 3: Subtracting Integers pp. 80-82 Lesson 5: Multiplying Integers pp. 86-88 Lesson 6: Dividing Integers pp. 89-91 Lesson 7: Commutative and Associative Properties pp. 92-94

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	Lesson 8: Distributive Property pp. 95-97 Unit 4 - Lesson 1: Order of Operations pp. 100-102
<b>Standard 4:</b>	
<b>The student uses estimation in problem solving and computation. (MA.A.4.3)</b>	
1. uses estimation strategies to predict results and to check the reasonableness of results.	Unit 2 - Lesson 1: Adding and Subtracting Fractions pp. 46-48 Lesson 2: Adding and Subtracting Mixed Numbers pp. 49-51 Lesson 5: Adding and Subtracting Decimals pp. 58-60 Lesson 6: Multiplying Decimals pp. 61-63
<b>Standard 5:</b>	
<b>The student understands and applies theories related to numbers. (MA.A.5.3)</b>	
1. uses concepts about numbers, including primes, factors, and multiples, to build number sequences.	Unit 1 - Lesson 5: Prime Factorization pp. 31-33 Lesson 6: Greatest Common Factor pp. 34-36 Lesson 7: Least Common Multiple pp. 37-39
<b>Measurement</b>	
<b>Standard 1:</b>	

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<b>The student measures quantities in the real world and uses the measures to solve problems. (MA.B.1.3)</b>	
1. uses concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two- and three-dimensional shapes, including rectangular solids and cylinders.	Unit 7 - Lesson 2: Area of Parallelograms and Triangles pp. 187-189 Lesson 3: Irregular Figures pp. 191-193 Lesson 4: Circumference of a Circle pp. 194-196 Lesson 5: Area of a Circle pp. 197-199 Lesson 6: Surface Area of a Prism pp. 200-202 Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
2. uses concrete and graphic models to derive formulas for finding rates, distance, time, and angle measures.	Unit 5 - Lesson 2: Rates pp. 132-134 Unit 6 - Lesson 1: Angles pp. 156-159 Unit 7 - Lesson 1: Pythagorean Theorem pp. 184-186
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 2: Area of Parallelograms and Triangles pp. 187-190 Lesson 3: Irregular Figures pp. 191-193 Lesson 4: Circumference of a Circle pp. 194-196 Lesson 5: Area of a Circle pp. 197-199 Lesson 6: Surface Area of a Prism pp. 200-202

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<b>Math Content Standard</b>	<b><i>Math Elevations</i> Level G Teacher's Guide Examples/Lessons</b>
	Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
4. constructs, interprets, and uses scale drawings such as those based on number lines and maps to solve real-world problems.	Unit 5 - Lesson 4: Scale Drawings and Models pp. 138-140
<b>Standard 2:</b>	
<b>The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary). (MA.B.2.3)</b>	
1. uses direct (measured) and indirect (not measured) measures to compare a given characteristic in either metric or customary units.	Unit 7 - Lesson 2: Area of Parallelograms and Triangles pp. 187-190 Lesson 3: Irregular Figures pp. 191-193 Lesson 4: Circumference of a Circle pp. 194-196 Lesson 5: Area of a Circle pp. 197 Lesson 6: Surface Area of a Prism pp. 200-202 Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
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 2: Area of Parallelograms and Triangles pp.187-190 Lesson 3: Irregular Figures pp. 191-193 Lesson 4: Circumference of a Circle pp. 194-196 Lesson 5: Area of a Circle pp. 197

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<b>Math Content Standard</b>	<b><i>Math Elevations</i> Level G Teacher's Guide Examples/Lessons</b>
	Lesson 6: Surface Area of a Prism pp. 200-202 Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
<b>Standard 3:</b>	
<b>The student estimates measurements in real-world problem situations. (MA.B.3.3)</b>	
1. solves real-world and mathematical problems involving estimates of measurements including length, time, weight/mass, temperature, money, perimeter, area, and volume, in either customary or metric units.	Unit 7 - Lesson 2: Area of Parallelograms and Triangles pp.187-190 Lesson 3: Irregular Figures pp. 191-193 Lesson 4: Circumference of a Circle pp. 194-196 Lesson 5: Area of a Circle pp. 197 Lesson 6: Surface Area of a Prism pp. 200-202 Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
<b>Standard 4:</b>	
<b>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)</b>	
1. selects appropriate units of measurement and determines and applies significant digits in a real-world context. (Significant digits	Unit 7 - Lesson 2: Area of Parallelograms and Triangles pp.187-190

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<b>Math Content Standard</b>	<b><i>Math Elevations</i> Level G Teacher's Guide Examples/Lessons</b>
should relate to both instrument precision and to the least precise unit of measurement.)	Lesson 3: Irregular Figures pp. 191-193 Lesson 4: Circumference of a Circle pp. 194-196 Lesson 5: Area of a Circle pp. 197 Lesson 6: Surface Area of a Prism pp. 200-202 Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
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 2: Area of Parallelograms and Triangles pp.187-190 Lesson 3: Irregular Figures pp. 191-193 Lesson 4: Circumference of a Circle pp. 194-196 Lesson 5: Area of a Circle pp. 197 Lesson 6: Surface Area of a Prism pp. 200-202 Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
<b>Geometry and Spatial Sense</b>	
<b>Standard 1: The student describes, draws, identifies, and analyzes two- and three-dimensional shapes. (MA.C.1.3)</b>	
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. 156-159 Lesson 2: Triangles pp. 160-162 Lesson 3: Polygons pp. 163-165

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	Lesson 4: Congruent Polygons pp. 166-168 Lesson 5: Similar Polygons pp. 169-171 Lesson 6: Translations in the Coordinate Plane pp. 172-174 Lesson 7: Reflections and Rotations in the Coordinate Plane pp. 175-178 Lesson 8: Solid Figures pp. 179-181
<b>Standard 2:</b>	
<b>The student visualizes and illustrates ways in which shapes can be combined, subdivided, and changed. (MA.C.2.3)</b>	
1. understands the geometric concepts of symmetry, reflections, congruency, similarity, perpendicularity, parallelism, and transformations, including flips, slides, turns, and enlargements.	Unit 6 - Lesson 4: Congruent Polygons pp. 166-168 Lesson 5: Similar Polygons pp. 169-171 Lesson 6: Translations in the Coordinate Plane pp. 172-174 Lesson 7: Reflections and Rotations in the Coordinate Plane pp. 175-178
<b>Standard 3:</b>	
<b>The student uses coordinate geometry to locate objects in both two and three dimensions and to describe objects algebraically. (MA.C.3.3)</b>	
1. represents and applies geometric properties and relationships	Unit 6 -

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to solve real-world and mathematical problems.	Lesson 1: Angles pp. 156-159 Lesson 2: Triangles pp. 160-162 Lesson 3: Polygons pp. 163-165 Lesson 4: Congruent Polygons pp. 166-168 Lesson 5: Similar Polygons pp. 169-171 Lesson 6: Translations in the Coordinate Plane pp. 172-174 Lesson 7: Reflections and Rotations in the Coordinate Plane pp. 175-178 Lesson 8: Solid Figures pp. 179-181
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 6: Translations in the Coordinate Plane pp. 172-174 Lesson 7: Reflections and Rotations in the Coordinate Plane pp. 175-178
<b>Algebraic Thinking</b>	
<b>Standard 1:</b>	
<b>The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions. (MA.D.1.3)</b>	
1. describes a wide variety of patterns, relationships, and functions through models, such as manipulatives, tables, graphs, expressions, equations, and inequalities.	Unit 4 - Lesson 1: Order of Operations pp. 100-102 Lesson 2: Evaluating Algebraic Expressions pp. 103-105 Lesson 3: Writing and Evaluating Expressions pp. 106-108

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	Lesson 4: Graphing Functions pp. 109-111 Lesson 5: Simplifying Expressions pp. 112-114 Lesson 6: Solving One-Step Equations Using Addition and Subtraction pp. 115-117 Lesson 7: Solving One-Step Equations Using Multiplication and Division pp. 118-120 Lesson 8: Solving and Graphing Inequalities pp. 121-124
2. creates and interprets tables, graphs, equations, and verbal descriptions to explain cause-and-effect relationships.	Unit 4 - Lesson 2: Evaluating Algebraic Expressions pp. 103-105 Lesson 3: Writing and Evaluating Expressions pp. 106-108 Lesson 4: Graphing Functions pp. 109-111 Lesson 5: Simplifying Expressions pp. 112-114 Lesson 6: Solving One-Step Equations Using Addition and Subtraction pp. 115-117 Lesson 7: Solving One-Step Equations Using Multiplication and Division pp. 118-120
<b>Standard 2:</b>	
<b>The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations. (MA.D.2.3)</b>	

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1. represents and solves real-world problems graphically, with algebraic expressions, equations, and inequalities.	Unit 4 - Lesson 4: Graphing Functions pp. 109-111
2. uses algebraic problem-solving strategies to solve real-world problems involving linear equations and inequalities.	Unit 4 - Lesson 6: Solving One-Step Equations Using Addition and Subtraction pp. 115-117 Lesson 7: Solving One-Step Equations Using Multiplication and Division pp. 118-120 Lesson 8: Solving and Graphing Inequalities pp. 121-124
<b>Data Analysis and Probability</b>	
<b>Standard 1:</b>	
<b>The student understands and uses the tools of data analysis for managing information. (MA.E.1.3)</b>	
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 7: Bar Graphs and Line Graphs pp. 233-236 Lesson 8: Circle Graphs pp. 237-239
2. understands and applies the concepts of range and central tendency (mean, median, and mode).	Unit 8 - Lesson 6: Mean, Median, and Mode pp. 229-232
3. analyzes real-world data by applying appropriate formulas for measures of central tendency and organizing data in a quality	Unit 8 - Lesson 6: Mean, Median, and Mode pp. 229-232

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display, using appropriate technology, including calculators and computers.	
<b>Standard 2:</b>	
<b>The student identifies patterns and makes predictions from an orderly display of data using concepts of probability and statistics. (MA.E.2.3)</b>	
1. compares experimental results with mathematical expectations of probabilities.	Unit 8 - Lesson 4: Disjoint, Overlapping, and Complementary Events pp. 221-224 Lesson 5: Dependent and Independent Events pp. 225-228
2. determines odds for and odds against a given situation.	Unit 8 - Lesson 4: Disjoint, Overlapping, and Complementary Events pp. 221-224 Lesson 5: Dependent and Independent Events pp. 225-228
<b>Standard 3:</b>	
<b>The student uses statistical methods to make inferences and valid arguments about real-world situations. (MA.E.3.3)</b>	
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 6: Mean, Median, and Mode pp. 229-232 Lesson 7: Bar Graphs and Line Graphs pp. 233-236 Lesson 8: Circle Graphs pp. 237-239

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2. identifies the common uses and misuses of probability and statistical analysis in the everyday world.	Unit 8 - Lesson 4: Disjoint, Overlapping, and Complementary Events pp. 221-224 Lesson 5: Dependent and Independent Events pp. 225-228