

Northpoint Horizons

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

Grade 7

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Content Standard	<i>Math Elevations</i>[™] Level G Teacher's Guide Examples/Lessons
MA.7.A.1.1 Distinguish between situations that are proportional or not proportional and use proportions to solve problems.	Unit 5 - Lesson 3: Writing and Solving Proportions pp. 135-137
MA.7.A.1.2 Solve percent problems, including problems involving discounts, simple interest, taxes, tips and percents of increase or decrease.	Unit 5 - 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. 151-153
MA.7.A.1.3 Solve problems involving similar figures.	Unit 6 - Lesson 5: Similar Polygons pp. 169-171
MA.7.A.1.4 Graph proportional relationships and identify the unit rate as the slope of the related linear function.	Unit 4 – Lesson 4: Graphing Functions pp. 109-111
MA.7.A.1.5 Distinguish direct variation from other relationships, including inverse variation.	Unit 4 – Lesson 7: Solving One-Step Equations Using Multiplication and Division pp. 118-120
MA.7.A.1.6 Apply proportionality to measurement in multiple contexts, including scale drawings and constant speed.	Unit 5 - Lesson 4: Scale Drawings and Models pp. 138-140
MA.7.G.2.1 Justify and apply formulas for surface area and volume of pyramids, prisms, cylinders, and cones.	Unit 7 - Lesson 6: Surface Area of a Prism pp. 200-202

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	Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
MA.7.G.2.2 Use formulas to find surface areas and volume of three-dimensional composite shapes.	Unit 7 - Lesson 3: Irregular Figures pp. 191-193
MA.7.A.3.1 Use and justify the rules for adding, subtracting, multiplying, dividing, and finding the absolute value of integers.	Unit 3 - Lesson 4: Absolute Value pp. 83-85
MA.7.A.3.2 Add, subtract, multiply, and divide integers, fractions, and terminating decimals, and perform exponential operations with rational bases and whole number exponents including solving problems in everyday contexts.	Unit 1 - Lesson 2: Exponents pp. 22-24 Unit 2 - Lesson 1: Adding and Subtracting Fractions pp. 46-48 Lesson 2: Adding and Subtracting Mixed Numbers p. 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 by 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

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	Lesson 4: Absolute Value pp. 83-85 Lesson 5: Multiplying Integers pp. 86-88 Lesson 6: Dividing Integers pp. 89-91
MA.7.A.3.3 Formulate and use different strategies to solve one-step and two-step linear equations, including equations with rational coefficients.	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
MA.7.A.3.4 Use the properties of equality to represent an equation in a different way and to show that two equations are equivalent in a given context.	Unit 4 - Lesson 6: Solving One-Step Equations Using Addition and Subtraction pp. 115-117 4.7 Solving One-Step Equations Using Multiplication and Division pp. 118-120
MA.7.G.4.1 Determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and apply these relationships to solve problems.	Unit 7 - Lesson 2: Area of Parallelograms and Triangles pp. 187-190 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
MA.7.G.4.2 Predict the results of transformations and draw transformed figures, with and without the coordinate plane.	Unit 6 - Lesson 6: Translations in the Coordinate Plane pp. 172-174

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	Lesson 7: Reflections and Rotations in the Coordinate Plane pp. 175-178
MA.7.G.4.3 Identify and plot ordered pairs in all four quadrants of the coordinate plane.	Unit 6 - Lesson 6: Translations in the Coordinate Plane pp. 172-174 Lesson 7: Reflections and Rotations in the Coordinate Plane pp. 175-178
MA.7.G.4.4 Compare, contrast, and convert units of measure between different measurement systems (US customary or metric (SI)), dimensions, and derived units to solve problems.	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 Lesson 7: Surface Area of a Cylinder pp. 203-205 Lesson 8: Volume of a Prism pp. 206-208
MA.7.A.5.1 Express rational numbers as terminating or repeating decimals.	Unit 2 - Lesson 5: Adding and Subtracting Decimals pp. 58-60 Lesson 6: Multiplying by Decimals pp. 61-63 Lesson 7: Dividing Decimals pp. 64-67 Lesson 8: Fraction and Decimals pp. 68-71
MA.7.A.5.2 Solve non-routine problems by working	Unit 2 –

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Content Standard	<i>Math Elevations</i>[™] Level G Teacher's Guide Examples/Lessons
backwards.	Lesson 4: Dividing Fractions and Mixed Numbers pp. 55-57
MA.7.S.6.1 Evaluate the reasonableness of a sample to determine the appropriateness of generalizations made about the population.	Unit 8 - Lesson 1: Possible Outcomes pp. 212-214
MA.7.S.6.2 Construct and analyze histograms, stem-and-leaf plots, and circle graphs.	Unit 8 - Lesson 7: Bar Graphs and Line Graphs pp. 233-236 Lesson 8: Circle Graphs pp. 237-239
MA.7.P.7.1 Determine the outcome of an experiment and predict which events are likely or unlikely, and if the experiment is fair or unfair.	Unit 8 - Lesson 1: Possible Outcomes pp. 212-214
MA.7.P.7.2 Determine, compare, and make predictions based on experimental or theoretical probability of independent or dependent events.	Lesson 5: Dependent and Independent Events pp. 225-228

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