



8th Grade Correlation to Mathematics Content Standards

| | Mathematics Curriculum Framework | I CAN Learn [®] Lesson Number | I CAN Learn [®] Lesson Title |
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| BIG IDEA 1 | Analyze and represent linear functions and solve linear equations and systems of linear equations. | | |
| MA.8.A.1.1 | Create and interpret tables, graphs, and models to represent, analyze, and solve problems related to linear equations, including analysis of domain, range and the difference between discrete and continuous data. | MPA-150 | Identifying and Graphing Linear and Nonlinear Functions |
| | | HA1-436 | Identifying Relations |
| | | HA1-437 | Identifying Relations as Functions |
| | | HA1-438 | Finding the Domain and Range of Functions |
| | | HA1-402 | Translating Among Multiple Representations of Functions |
| | | HA1-442 | Interpreting Graphs of Functions in Real-Life Situations |
| MA.8.A.1.2 | Interpret the slope and the x- and y-intercepts when graphing a linear equation for a real-world problem. | MPA-135 | Determining the Slope of a Line |
| | | MPA-140 | Examining Linear Equations in Slope-Intercept Form |
| MA.8.A.1.3 | Use tables, graphs, and models to represent, analyze, and solve real-world problems related to systems of linear equations. | HA1-455 | Solving Systems of Linear Equations by Graphing |
| | | HA1-806 | Solving Systems of Linear Equations Using the Graphing Calculator |
| MA.8.A.1.4 | Identify the solution to a system of linear equations using graphs. | HA1-455 | Solving Systems of Linear Equations by Graphing |
| MA.8.A.1.5 | Translate among verbal, tabular, graphical and algebraic representations of linear functions. | HA1-402 | Translating Among Multiple Representations of Functions |
| MA.8.A.1.6 | Compare the graphs of linear and non-linear functions for real-world situations. | MPA-150 | Identifying and Graphing Linear and Nonlinear Functions |
| BIG IDEA 2 | Analyze two- and three-dimensional figures by using distance and angle. | | |
| MA.8.G.2.1 | Use similar triangles to solve problems that include height and distances. | MPA-121 | Identifying Similar and Congruent Polygons Using Proportions |
| MA.8.G.2.2 | Classify and determine the measure of angles, including angles created when parallel lines are cut by transversals. | MPA-056 | Classifying Angles |
| | | MPA-057 | Identifying and Applying Supplementary and Complementary Angles |
| | | MPA-105 | Determining the Measure of Angles Made by Parallel Lines and a Transversal |
| MA.8.G.2.3 | Demonstrate that the sum of the angles in a triangle is 180-degrees and apply this fact to find unknown measure of angles, and the sum of angles in polygons. | MPA-058 | Identifying Polygons |
| | | MPA-059 | Classifying Triangles and Quadrilaterals |
| | | MPA-060 | Determining Which Figures Tessellate |
| MA.8.G.2.4 | Validate and apply Pythagorean Theorem to find distances in real world situations or between points in the coordinate plane. | MPA-066 | Solving Problems Using the Pythagorean Theorem |
| | | HA1-520 | Finding the Distance Between Two Points on a Coordinate Plane |

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| BIG IDEA 3 | Analyze and summarize data sets. | | |
| MA.8.S.3.1 | Select, organize and construct appropriate data displays, including box and whisker plots, scatter plots, and lines of best fit to convey information and make conjectures about possible relationships. | MPA-097 | Constructing Box-and-Whisker Plots |
| | | MPA-132 | Interpreting and Creating Scatterplots |
| | | HA1-965 | Determining the Best-Fitting Line |
| MA.8.S.3.2 | Determine and describe how changes in data values impact measures of central tendency. | HA1-541 | Analyzing Data Using the Measures of Central Tendency and the Range |
| SUPPORTING IDEA 4 | Algebra | | |
| MA.8.A.4.1 | Solve literal equations for a specified variable. | HA1-175 | Solving Literal Equations |
| MA.8.A.4.2 | Solve and graph one- and two-step inequalities in one variable. | MPA-109 | Solving and Graphing Linear Inequalities on a Number Line |
| SUPPORTING IDEA 5 | Geometry and Measurement | | |
| MA.8.G.5.1 | Compare, contrast, and convert units of measure between different measurement systems (US customary or metric (SI)) and dimensions including temperature, area, volume, and derived units to solve problems. | MM1-605 | Converting Fahrenheit and Celsius |
| | | MPA-155 | Comparing and Converting Rates |
| | | MPA-067 | Finding the Area of Rectangles and Parallelograms |
| | | MPA-069 | Finding the Area of Triangles and Trapezoids |
| | | MPA-070 | Finding the Circumference of a Circle |
| | | MPA-071 | Finding the Area of a Circle |
| | | MPA-068 | Finding the Area of Irregular Figures |
| | | MPA-075 | Finding the Volume of Rectangular Prisms |
| | | MPA-076 | Finding the Volume of Cylinders |
| | | MPA-077 | Solving Problems Using a Formula |
| | | MPA-115 | Finding the Volumes of Prisms, Cylinders, Pyramids, and Cones Using Models |
| SUPPORTING IDEA 6 | Number and Operations | | |
| MA.8.A.6.1 | Use exponents and scientific notation to write large and small numbers and vice versa and to solve problems. | MPA-021 | Converting Between Standard and Scientific Notation |
| MA.8.A.6.2 | Make reasonable approximations of square roots and mathematical expressions that include square roots, and use them to estimate solutions to problems and to compare mathematical expressions involving real numbers and radical expressions. | MPA-064 | Finding Square Roots of Perfect Squares |
| | | MPA-065 | Estimating Square Roots |
| | | MPA-124 | Classifying Numbers in the Real Number System |
| MA.8.A.6.3 | Simplify real number expressions using the laws of exponents. | MPA-013 | Using Powers and Exponents in Expressions |
| | | HA1-810 | Simplifying Expressions Using the Multiplication Properties of Exponents (Future release) |
| | | HA1-815 | Simplifying Expressions with Negative and Zero Exponents |
| | | HA1-818 | Simplifying Expressions Using the Division Properties of Exponents |
| MA.8.A.6.4 | Perform operations on real numbers (including integer exponents, radicals, percents, scientific notation, absolute value, rational numbers, and irrational numbers) using multi-step and real world problems. | HA1-003 | Order of Operations |
| | | HA1-015 | Graphing Real Numbers Using a Number Line |
| | | HA1-020 | Classifying Numbers into Subsets of Real Numbers |
| | | HA1-035 | Adding Real Numbers Using a Number Line |
| | | HA1-025 | Comparing and Ordering Real Numbers |
| | | HA1-030 | Using Opposites and Absolute Values |

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| | | HA1-040 | The Addition Rule for Real Numbers |
| | | HA1-045 | Subtracting Real Numbers |
| | | HA1-050 | Multiplying Real Numbers |
| | | HA1-055 | Dividing Real Numbers |
| | | HA1-062 | Adding, Subtracting, Multiplying, and Dividing Real Numbers |
| | | HA1-235 | Applying Scientific Notation (Future release) |
| | | HA1-060 | Evaluating Numerical Expressions Using the Order of Operations |
| | | HA1-810 | Simplifying Expressions Using the Multiplication Properties of Exponents (Future release) |
| | | MPA-083 | Finding Number Given Percent and Total |
| | | MPA-084 | Finding Percent Given Number and Total |
| | | MPA-085 | Finding Total Given Number and Percent |
| | | MPA-086 | Solving Problems Using Percent |
| | | MPA-087 | Finding Percent Increase and Decrease |
| | | MPA-126 | Solving Real-World Problems Involving Sales Tax |
| | | MPA-127 | Solving Real-World Problems Involving Discounts, Markup, and Commission |
| | | MPA-128 | Solving Real-World Problems Involving Simple and Compound Interest |
| | | HA1-480 | Finding the Square Roots of Rational Numbers |

MM1-Fundamentals of Mathematics

MPA- Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the Grade 8 Florida Mathematics Content Standards document adopted by the Florida Department of Education on September 18, 2007.