

HAZLETON AREA SCHOOL DISTRICT
Mathematics Curriculum
Grade 6

HAZLETON AREA SCHOOL
DISTRICT



GRADE 6
Math Curriculum

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Module: 3				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
4 Weeks	Compute with Multi-Digit Numbers and Fractions	Standard: CC.2.1.6.E. Identify and choose appropriate processes to compute fluently with multi-digit numbers. CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples. CC.2.1.6.E.1 Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	M06.A-N.2.1.1 M06.A-N.2.2.1 M06.A-N.2.2.2 M06.A-N.1.1.1	• Dividend • Divisor • Quotient • Inverse Property of Multiplication • Reciprocal • Common factor • Numerator • Denominator • Simplify • Mixed number • Whole number

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Module: 4				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
4 Weeks	Integers, rational numbers, and coordinate plane	Standard: CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems. CC.2.1.6.E.1 Apply and extend previous understandings of multiplication and division to divide fractions by fractions. CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with multi-digit numbers. CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples. CC.2.1.6.E.4 Apply and extend previous understandings of numbers to the system of rational numbers.	M06.A-N.3.1.1 M06.A-N.3.1.2 M06.A-N.3.2.1 M06.A-N.3.2.2 M06.A-N.3.2.3	• Integer • Negative integer • Positive integer • Absolute value • Opposites • Compare order • Inequality • Rational number • Whole number • Natural number • Quadrants • Coordinate plane • Axis • x & y- coordinates • x & y- axis • Ordered pairs • Reflection • Horizontal distance • Vertical distance

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Module 1				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
4 Weeks	Ratios and Rates	Standard: CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems.	M06.A-R.1.1.1 M06.A-R.1.1.2 M06.A-R.1.1.3 M06.-A-R.1.1.4	• Ratio • Ratio table • Equivalent ratios • Scaling • Double number line • Bar diagram • Unit ratio • Rate • Unit price • Unit rate

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Module 2				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
3 Weeks	Fractions, Decimals, and Percents	Standard: CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems. CC.2.4.5.A.1 Solve problems using conversions within a given measurement system.	M06.A-R.1.1.5 M05.D-M.1.1.1	• Percent • Mixed numbers • Equivalent ratio • Numerator • Denominator • Fraction • Simplest form • Decimal • Benchmark percent

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Module 5				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
4 Weeks	Numerical and Algebraic Expressions	Standard: CC.2.2.6.B.1 Apply and extend previous understandings of arithmetic to algebraic expressions.	M06.B-E.1.1.1 M06.B-E.1.1.2 M06.B-E.1.1.3 M06.B-E.1.1.4 M06.B-E.1.1.5	• Base • Exponent • Power • Simplest form • Factors • Evaluate • Numerical expression • Order of operations • Algebra • Algebraic expression • Coefficient • Constant • Defining the variable • Like terms • Term • Variable • Common factor • Greatest Common Factor (GCF) • Least Common Multiple (LCM) • Distributive Property • Factoring the expression • Associative Property (grouping) • Commutative Property (order) • Distributive Property (Broken Up) • Equivalent expressions • Identity Property (Zero)

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Module 6				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
3 Weeks	Equations and Inequalities	Standard: CC.2.2.6.B.2	M06.B-E.2.1.1 M06.B-E.2.1.2 M06.B-E.2.1.3 M06.B-E.2.1.4	• Equal sign (=) • Equation • Guess, check, and revise strategy • Solution • Solve • Inverse Operations • Subtraction property of equality • Addition property of equality • Multiplication property of equality • Inequality

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Module 7				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
2 Weeks	Equations and Inequalities	Standard: CC.2.2.6.B.3 Represent and analyze quantitative relationships between dependent and independent variables	M06.B-E.3.1.1 M06.B-E.3.1.2	• Dependent variable • Independent variable

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Module 8				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
2 Weeks	Area	Standard: CC.2.3.6.A.1 Apply appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume.	M06.C-G.1.1.1 M06.C-G.1.1.2 M06.C-G.1.1.4	• Base • Height • Parallelogram • Dimensions • Congruent figures • Trapezoid • Length • Width • Formula • Regular polygon • Vertical sides • x-coordinate • y-coordinate • Horizontal sides

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Module 9				
Timeline	Topics	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
2 Weeks	Volume and Surface Area	Standard: CC.2.3.6.A.1 Apply appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume.	M06.C-G.1.1.3 M06.C-G.1.1.5 M06.C-G.1.1.6	• Cubic Units • Prism • Rectangular prism • Three-dimensional figure • Volume • Net • Surface area • Sides • Congruent • Triangular prism • Base • Face • Formula • Lateral faces • Pyramid • Slant height • Length • Width • Height

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Module 10				
Timeline	Topic	PA Standards	PA Eligible Content	Tier 2 & 3 Vocabulary
2 Weeks	Statistical Measure and Displays	Standard: CC.2.4.6.B.1 Demonstrate an understanding of statistical variability by displaying, analyzing, and summarizing distributions.	M.06.D-S.1.1.1 M06.D-S.1.1.2 M06.D-S.1.1.3 M06.D-S.1.1.4	• Statistical question • Statistics • Dot plot (Line plot) • Histogram • Average • Mean (average) • Median (middle) • Mode (most often) • Box plot • First quartile • Interquartile range • Measures of variation • Quartiles • Range • Second quartile • Third quartile • Third quartile • Mean absolute deviation • Outlier • Cluster • Distribution • Gap • Peak • Symmetric distribution • Variable