Planned Course: Algebra I	Course Number: M304	Department: Math
Unit: Exponents and Polynomials (6) Estimated Time: 1 course	Grade Level: 7 - 12 Level/Track: Keystone Algebra I	Date Approved: 08/22/2016

PA Academic Standards	Core Concepts (in question format) • Skills/Knowledge	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)
Algebra I Keystone Module 1 – Operations and Linear Equations & Inequalities **Assessment Anchor:** Operations with Real Numbers and Expressions **PA Core Standards:** CC.2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents. CC.2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real-world or mathematical problems. CC.2.2.8.B.1 Apply concepts of radicals and integer exponents to generate equivalent expressions. CC.2.2.7.B.3 Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations. CC.2.2.HS.D.9 Use reasoning to solve equations and justify the solution method. CC.2.2.HS.D.1 Interpret the structure of expressions to represent a quantity in terms of its context. CC.2.2.HS.D.2 Write expressions in equivalent forms to solve problems. CC.2.2.HS.D.3 Extend the knowledge of arithmetic operations and apply to polynomials. CC.2.2.HS.D.5 Use polynomial identities to solve problems. CC.2.2.HS.D.6 Extend the knowledge of rational functions to rewrite in equivalent forms.	▶ How do you simplify expressions involving exponents, roots, and absolute values? • Simplify and evaluate expressions involving properties and laws of exponents. • 6-1 Evaluate expressions containing zero and integer exponents. • 6-1 Simplify expressions containing zero and integer exponents. ▶ How do you add, subtract, and multiply polynomials by using properties of exponents and combining like terms? • 6-3 Classify polynomials and write polynomials in standard form. • 6-3 Evaluate polynomial expressions. • Add and subtract polynomials. • 6-5 multiply polynomials. • 6-6 Find special products of binomials.	▶ Warm up exercise ▶ Are You Ready? Intervention and Enrichment ▶ Exercises in book ▶ Keystone preparation resources (Study Island, Finish Line, USA Test Prep, Item Sampler, etc.) ▶ Online tutorial video ▶ MDC lessons ▶ Interleave study guide ▶ Spaced Learning Over Time (SLOT) review	▶ Quizzes (teacher created) ▶ Summative chapter tests (common) ▶ Quarterly assessments (common) ▶ Graded assignments/projects ▶ Formative assessments (homework, classwork, questioning, exit tickets, etc.)