

Planned Course: Algebra I	Course Number: M304	Department: Math	
Unit: Factoring Polynomials (7)	Grade Level: 7 - 12		
Estimated Time: 1 course	Level/Track: Keystone Algebra I	Date Approved: 08/22/2016	
PA Academic Standards	▶ Core Concepts (in question format) <ul style="list-style-type: none"> • Skills/Knowledge 	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)

<p>Algebra I Keystone Module 1 – Operations and Linear Equations & Inequalities</p> <p>Assessment Anchor: Operations with Real Numbers and Expressions</p> <p>PA Core Standards: CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples. CC.2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real-world or mathematical problems. CC.2.2.HS.D.2 Write expressions in equivalent forms to solve problems. CC.2.2.HS.D.6 Extend the knowledge of rational functions to rewrite in equivalent forms.</p>	<ul style="list-style-type: none"> ▶ How you find the greatest common factor? <ul style="list-style-type: none"> • 7-1 Write the prime factorization of numbers. • 7-1 Find the GCF of monomials. ▶ How do you factor polynomials and/or special products? <ul style="list-style-type: none"> • 7-2 Factor polynomials by using the greatest common factor. • 7-3 Factor quadratic trinomials of the form $x^2 + bx + c$. • 7-4 Factor quadratic trinomials of the form $ax^2 + bx + c$. • 7-5 Factor perfect-square trinomials. • 7-5 Factor the difference of two squares. ▶ How do you choose a factoring method? <ul style="list-style-type: none"> • Choose an appropriate method for factoring a polynomial. • Combine methods for factoring a polynomial. ▶ How do you simplify rational expressions? <ul style="list-style-type: none"> • Simplify and/or reduce a rational algebraic expression. 	<ul style="list-style-type: none"> ▶ 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 	<ul style="list-style-type: none"> ▶ Quizzes (teacher created) ▶ Summative chapter tests (common) ▶ Quarterly assessments (common) ▶ Graded assignments/projects ▶ Formative assessments (homework, classwork, questioning, exit tickets, etc.)
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