

HPISD Curriculum: Algebra I							
Title		Estimated Duration	6 Weeks				
Unit 10: Factoring Trinomials		2 weeks	1	2	3	4	5
Unit Overview							
Factor polynomials using several techniques, including factoring a greatest common factor, factoring a trinomial into a product of two binomials, and factoring difference of two squares.							
Enduring Understandings							
The student will understand that:		<ul style="list-style-type: none"> The student will learn to recognize trinomials that are prime. The student will learn to factor trinomials. The student will understand how to determine the GCF in a polynomial. The student will understand how to group terms in a polynomial with more than three terms and factor the GCF. The students will learn to recognize a polynomial that is referred to as a difference of two squares. The student will understand how to factor a difference of two squares. 					
Concepts		Guiding/Essential Questions					
<ul style="list-style-type: none"> relationships rules 		<ul style="list-style-type: none"> What is a GCF? How do you find the GCF? How can a polynomial with more than three terms be factored completely? When is a polynomial called a difference of two squares? What is the pattern to factor a difference of two squares? Why is a sum of two squares prime? When is a polynomial considered prime? How can polynomials be factored completely? 					
Learning Targets							
Factoring binomials, trinomials, and polynomials completely. Methods for factoring trinomials.							
Formative Assessments				Summative Assessments			
homework, quizzes				test			

TEKS: Readiness Standards		TEKS: Supporting Standards	
<p>A.4A Finds specific function values, simplify polynomial expressions, transform and solve equations, and factor as necessary in problem situations.</p>			
Processes and Skills: What students should be able to DO		Facts: What students should KNOW	
<ul style="list-style-type: none"> Factor polynomials by identifying the GCF. Factor polynomials with four terms by grouping and factoring out the GCF. Factor the difference of two squares into two conjugate factors. Discover patterns for factoring the difference of two squares. Factor trinomials using split the middle method. 		<ul style="list-style-type: none"> Split the middle method. Prime polynomials cannot be factored. 	
Topics			
Factoring w/ Grouping & GCF Factoring Differences of Squares		Factoring Split the Middle	
Language of Instruction			
greatest common factor	binomial	binomial	
squares	factored form	conjugate factors	
factors	perfect square trinomial	difference of two squares	
difference of two squares	quadratic	factored form	
split the middle	trinomial	factor by grouping	
State Assessment Connections		National Assessment Connections	
Resources			
Chapter 9.5 teacher-made materials			