

## unit 8/CHAPTER 12 Changing Forms of Quadratic functions

Name:	 
Period:	

Algebra 2 Million Exponential Quadratic	Cornell Notes/Summary Sheet
<u>Lesson 12.1 – Big Ideas</u>	<u>Your Notes</u>
<ul> <li>Polynomial</li> </ul>	
• Term	
<ul> <li>Coefficient</li> </ul>	
<ul> <li>Monomial</li> </ul>	
• Binomial	
• Trinomial	
• Degree of a term	
Degree of a polynomial	
Adding & subtracting	
polynomials	
Lesson 12.2 - Big Ideas	Your Notes
<ul> <li>Multiplying polynomials</li> </ul>	
The table method	
• FOIL	

## **Lessons 12.3 & 12.5 - Big Ideas Your Notes** Greatest common factor The Box Method (GCF) The box method only works if you have factored out any common factors first! Factoring trinomials Multiply the first and last terms. 2. Find the factors that multiply to be the product (in step 1) and that add The Box Method to be the middle term (organize this information with an X-box) Difference of Two Squares 3. Draw a 2×2 square Perfect Square Trinomial 4. Put the first term of the trinomial in the upper-left corner and the constant term in the lower-right corner. 5. Put the factors (from step 2) in the two remaining squares. 6. Find the GCF of each row & each column 7. Write the result as a product of two binomials. Lesson 12.7 - Big Ideas **Your Notes** Completing the Square Converting standard form to vertex form