

# Algebra 1 Part 2 Course Outline 20078-2009

**Text: Glencoe Algebra Vol 2: Concepts and Applications**

WEEK	SOL	TEXTBOOK	SUPPLEMENTS
1 <sup>st</sup> Six Weeks		<b>Review Alg I pt 1</b> (pgs B4-B56 in Vol 2)	<b>Study Organizer:</b> Use Foldables from previous year's work.
	A.1 A.3 A.6	<b>Ch 12 Inequalities</b>  12.1 Inequalities and Their Graphs 12.2 Solving Addition and Subtraction Inequalities 12.3 Solving Multiplication and Division Inequalities 12.4 Solving Multi-Step Inequalities	<b>Study Organizer:</b> Foldables  <b>Activity:</b> Use TI-83 to verify equations
2 <sup>nd</sup> Six Week	A.6 A.9	<b>Ch 13 Systems of Equations and Inequalities</b>  13.1 Systems of Equations and Inequalities 13.2 Solutions of Systems of Equations 13.3 Substitution 13.4 Elimination Using Addition and Subtraction 13.5 Elimination Using Multiplication 13.6 Solving Quadratic- Linear Systems of Equations	<b>Study Organizer:</b> Foldables  <b>Investigation:</b> Matrices  <b>Technology:</b> Solve systems on TI-83 using the table, graph, or CALC feature  <b>Activity:</b> Connecting Algebra and Geometry (portfolio) <b>Technology:</b> Verify Shading with TI-83
<b>Note:</b> Matrix mathematics will be covered with chapter 13.			

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3 <sup>rd</sup> Six Weeks	A.13	<b>Ch 14 Radical Expressions</b> 14.1 The Real Numbers 14.2 The Distance Formula 14.3 Simplifying Radical Expressions 14.4 Adding and Subtracting Radical Expressions 14.5 Solving Radical Equations	<b>Study Organizer:</b> Foldables  <b>Activity:</b> Finding squares and square roots using base-10 blocks.
	A.11	<b>Ch 9 Polynomials</b> 9.1 Polynomials 9.2 Adding and Subtracting Polynomials 9.3 Multiplying and Polynomial by a Monomial 9.4 Multiplying Binomials 9.5 Special Products	<b>Study Organizer:</b> Foldables  <b>Activity:</b> Algebra Tiles for modeling polynomials  <b>Technology:</b> Interactive Website <a href="http://www.shodor.org/">http://www.shodor.org/</a>  <b>Activity:</b> Laws of Exponents (portfolio)
4 <sup>th</sup> Six Weeks	A.12	<b>Ch 10 Factoring</b> 10.1 Factors 10.2 Factoring using the Distributive Property 10.3 Factoring Trinomials 10.4 Factoring More Trinomials 10.5 Special Factors	<b>Study Organizer:</b> Foldables  <b>Activity:</b> Factoring with Algebra Tiles (portfolio)  <b>Technology:</b> Interactive Website <a href="http://www.shodor.org/">http://www.shodor.org/</a>  <b>Technology:</b> Verify solutions using TI-83 (portfolio)

WEEK	SOL	TEXTBOOK	SUPPLEMENTS
5 <sup>th</sup> Six Weeks	A.14 A.15	<b>Ch 11 Quadratic and Exponential Functions</b> 11.1 Quadratic and Exponential Functions 11.2 Families of Quadratic Functions 11.3 Solving Quadratic Equations by Graphing 11.4 Solving Quadratic Equations by Factoring 11.5 Solving Quadratic Equations by Completing the Square 11.6 The Quadratic Formula 11.7 Exponential Functions	<b>Study Organizer:</b> Foldables  <b>Activity:</b> Factoring with Algebra Tiles  <b>Technology:</b> Graph Quadratic Equations and look for x-intercepts (portfolio) <b>Activity:</b> Completing the Square with Algebra Tiles
	A.17	<b>Ch 15 Rational Expressions and Equations</b> 15.1 Simplifying Rational Expressions 15.2 Multiplying and Dividing Rational Expressions 15.3 Dividing Polynomials 15.4 Combining Rational Expressions w/ like denominators 15.5 Combining Rational Expressions w/ unlike Denominators 15.6 Solving Rational Equations	<b>Study Organizer:</b> Foldables  <b>Activity:</b> Algebra Tiles for modeling polynomials, and multiplying and dividing polynomials.
6 <sup>th</sup> Six Weeks		<i>Review for Exams</i>	
		<i>SOL Test</i>	