

Curriculum Map
Algebra Two CP1 (331)
Saugus High School
Saugus Public Schools
2009-2010

Week 1		Week 2	
<p align="center">Performance Standards</p> <p><i>The students will:</i></p> <p>10.N.1 Identify and use the properties of operations on real numbers. 10.N.2 Simplify numerical expressions.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i></p> <p>10.N.1 Identify and use the properties of operations on real numbers. 10.N.2 Simplify numerical expressions.</p>	
<p align="center">Unit/Topic/Lesson UNIT ONE Properties and Operations</p> <p>1. Sets of Numbers 2. Properties of Real Numbers 3. Square Roots</p>		<p align="center">Unit/Topic/Lesson UNIT ONE Properties and Operations</p> <p>1. Simplifying Algebraic Functions 2. Properties of Exponents</p>	
<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p>1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i></p>	
<p align="center">Objectives</p> <p>1. To classify and order numbers 2. To identify and use properties of real numbers. 3. To estimate square roots. 4. To simplify, add, subtract, multiply, and divide square roots.</p>	<p align="center">Essential Question</p> <p>How do you estimate the value of a square root without the use of a calculator?</p>	<p align="center">Objectives</p> <p>1. To simplify and evaluate algebraic expressions. 2. To simplify expressions involving exponents. 3. To use scientific notation.</p>	<p align="center">Essential Question</p> <p>How do you use the laws of exponents to simplify an algebraic expression involving monomials?</p>
<p align="center">Teacher Resources</p> <p><i>Bittinger Immediate Algebra ©2002</i></p> <p>1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments</p>	<p align="center">Media Resources</p> <p>1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments</p>	<p align="center">Teacher Resources</p> <p><i>Bittinger Immediate Algebra ©2002</i></p> <p>1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments</p>	<p align="center">Media Resources</p> <p>1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments</p>
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concept of Properties and Operations</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 3		Week 4	
Performance Standards		Performance Standards	
<i>The students will:</i>		<i>The students will:</i>	
<p>10.P.1 Describe, compute, extend, analyze, generalize, and create patterns. 10.P.6 Solve equations and inequalities.</p>		<p>10.P.1 Describe, compute, extend, analyze, generalize, and create patterns. 10.P.6 Solve equations and inequalities.</p>	
Unit/Topic/Lesson UNIT TWO Introduction to Functions		Unit/Topic/Lesson UNIT TWO Introduction to Functions	
<ol style="list-style-type: none"> 1. Relations and Functions 2. Function Notation 		<ol style="list-style-type: none"> 1. Exploring Transformations 2. Introduction to Parent Functions 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To identify the domain and range of relations and functions. 2. To determine whether a relation is a function. 3. To write functions using functional notation. 4. To evaluate and graph functions. 	<p>How do you determine whether a relation is a function, both algebraically and graphically?</p>	<ol style="list-style-type: none"> 1. To apply transformations to points and sets of points. 2. To interpret transformations of real-world data. 3. To identify parent functions from graphs and equations. 4. To use parent functions to model real-world data and make estimates for unknown values. 	<p>How do you determine which parent function is represented by a given transformed function in functional notation?</p>
Teacher Resources	Media Resources	Teacher Resources	Media Resources
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<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On concepts involving Properties, Operations and Functions.</p>	<p>Completed by:</p> <p>Comments:</p>

Week 5		Week 6	
Performance Standards		Performance Standards	
<i>The students will:</i>		<i>The students will:</i>	
<p>10.P.1 Describe, compute, extend, analyze, generalize, and create patterns.</p> <p>10.P.6 Solve equations and inequalities.</p>		<p>10.P.1 Describe, compute, extend, analyze, generalize, and create patterns.</p> <p>10.P.6 Solve equations and inequalities.</p>	
Unit/Topic/Lesson UNIT THREE Linear Functions		Unit/Topic/Lesson UNIT THREE Linear Functions	
<ol style="list-style-type: none"> 1. Solving Linear Equations (one variable) 2. Solving Linear Inequalities (one variable) 3. Solving Proportions 		<ol style="list-style-type: none"> 1. Graphing Linear Functions (two variables) 2. Writing Linear Functions (two variables) 3. Linear Inequalities (two variables) 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To solve linear equations and inequalities. 2. To apply proportional relationships to rates, similarity, and scale. 	<p>What are the similarities and differences between solving a linear equation compared to a linear inequality?</p>	<ol style="list-style-type: none"> 1. To graph a linear function. 2. To use slope-intercept and point-slope forms to write a linear function. 3. To solve and graph linear inequalities in two variables 	<p>How do you decide which form of a linear equation should be used in any given problem?</p>
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Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 7		Week 8	
Performance Standards		Performance Standards	
<i>The students will:</i>		<i>The students will:</i>	
10.P.1 Describe, compute, extend, analyze, generalize, and create patterns.		10.P.1 Describe, compute, extend, analyze, generalize, and create patterns.	
10.P.6 Solve equations and inequalities.		10.P.6 Solve equations and inequalities.	
Unit/Topic/Lesson UNIT THREE Linear Functions		Unit/Topic/Lesson UNIT THREE Linear Functions	
<ol style="list-style-type: none"> Solving Absolute Value Equations (one variable) Solving Absolute Value Inequalities (one variable) 		<ol style="list-style-type: none"> Absolute Value Functions (two variables) Review all Linear Functions concepts. 	
Mission and Expectations		Mission and Expectations	
1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills		1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To solve compound inequalities. To write and solve absolute-value equations and inequalities. 	What is the difference between a disjunction and a conjunction and how does it apply to absolute values?	<ol style="list-style-type: none"> To solve absolute value functions with two variables To review all linear functions, equations, and inequality concepts. 	What is the domain and range of a given absolute value function and how do you determine these values?
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Evaluation/Activities		Evaluation/Activities	
Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.	Completion date: Completed by: Comments:	Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concept of Linear Functions	Completion date: Completed by: Comments:

Week 9		Week 10	
Performance Standards		Performance Standards	
<i>The students will:</i> 12.P.9 Use matrices to solve systems of linear equations. Apply to everyday problems		<i>The students will:</i> 10.P.8 Solve problems using systems of linear Equations or inequalities 12.P.10 Use symbolic, numeric, and graphical methods to solve systems of equations and/or inequalities.	
Unit/Topic/Lesson UNIT FOUR Matrices		Unit/Topic/Lesson UNIT FIVE Systems of Linear Equations and Inequalities	
<ol style="list-style-type: none"> Representations of Data and Data Handling. Operations with Matrices. Solving Problems Using Matrices Matrices Using Graphing Calculators 		<ol style="list-style-type: none"> Solving a System of Linear Equations by Graphing (on paper) Solving a System of Linear Equation by Graphing (using a graphing calculator) 	
Mission and Expectations		Mission and Expectations	
1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i>		1. <i>Critical Thinking Skills</i> 2. <i>Problem Solving Skills</i> 3. <i>Test Taking Skills</i>	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To find the sum, differences, scalar product, and product of matrices. To solve problems involving matrices. To use the graphing calculator to perform operations with matrices. 	How do you determine whether two matrices can be added, subtracted, or multiplied?	<ol style="list-style-type: none"> To find the solution to a linear system by graphing on paper. To find the solution to a linear system by graphing using a graphing calculator. 	
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<i>Bittinger Immediate Algebra</i> ©2002		<i>Bittinger Immediate Algebra</i> ©2002	
<ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
Evaluation/Activities	Completion date:	Evaluation/Activities	Completion date:
Homework: To be given daily on each introduced topic	Completed by:	Homework: To be given daily on each introduced topic	Completed by:
Review: All weekly concepts.	Comments:	Review: All weekly concepts.	Comments:
Quiz: Assessments given as warranted by the curriculum.		Quiz: Assessments given as warranted by the curriculum.	
Test: On the concept of Matrices			

Week 11		Week 12	
Performance Standards		Performance Standards	
<p>The students will:</p> <p>10.P.8 Solve problems using systems of linear Equations or inequalities</p> <p>12.P.10 Use symbolic, numeric, and graphical methods to solve systems of equations and/or inequalities.</p>		<p>The students will:</p> <p>10.P.8 Solve problems using systems of linear Equations or inequalities</p> <p>12.P.10 Use symbolic, numeric, and graphical methods to solve systems of equations and/or inequalities.</p> <p>12.P.9 Use matrices to solve systems of linear equations. Apply to everyday problems</p>	
Unit/Topic/Lesson UNIT FIVE Systems of Linear Equations and Inequalities		Unit/Topic/Lesson UNIT FIVE Systems of Linear Equations and Inequalities	
<ol style="list-style-type: none"> Solving a System of Linear Equations by Symbolically Using Substitution Solving a System of Linear Equation by Symbolically Using the Elimination Method 		<ol style="list-style-type: none"> Solving a System of Linear Equations by Using Matrices Solving a System of Linear Equations by Using the Appropriate Method 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 		<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To solve a system of linear equations by the algebraic method of substitution. To solve a system of linear equations by the algebraic method of elimination (linear combination) 	How do you determine whether to use elimination or substitution to solve a linear system?	<ol style="list-style-type: none"> To solve a system of linear equations using matrices concepts. To select the appropriate method to solve a linear system. 	How do you decide which is the appropriate method of solution to a given system of linear equations?
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Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 13		Week 14	
Performance Standards		Performance Standards	
<p>The students will: 10.P.8 Solve problems using systems of linear Equations or inequalities 12.P.10 Use symbolic, numeric, and graphical methods to solve systems of equations and/or inequalities.</p>		<p>The students will: 10.P.8 Solve problems using systems of linear Equations or inequalities 12.P.10 Use symbolic, numeric, and graphical methods to solve systems of equations and/or inequalities.</p>	
Unit/Topic/Lesson UNIT FIVE Systems of Linear Equations and Inequalities		Unit/Topic/Lesson UNIT FIVE Systems of Linear Equations and Inequalities	
<ol style="list-style-type: none"> Solving a System of Linear Equations with Three Variables Solving a System of Linear Inequalities 		<ol style="list-style-type: none"> Linear Programming Solving Linear Programming Problems 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 		<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To solve a system of linear equations that contains three variables. To solve a system of linear inequalities by graphing. 	How do determine the solution to a linear inequality by graphing?	<ol style="list-style-type: none"> To solve linear programming problems. To find the feasible region of solution to a problem. 	How do you determine the feasible region of solution to a given problem and how do you optimize the objective function?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
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Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date: Completed by: Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Solving Linear Systems</p>	<p>Completion date: Completed by: Comments:</p>

Week 15		Week 16	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 10.N.1 Identify and use the properties of operations on real numbers.</p>		<p><i>The students will:</i> 10.N.1 Identify and use the properties of operations on real numbers.</p>	
Unit/Topic/Lesson UNIT SIX Factoring		Unit/Topic/Lesson UNIT SIX Factoring	
<ol style="list-style-type: none"> Factoring by Using Common Factors Factoring Special Polynomials Factoring Quadratic Trinomials (where a equals zero) 		<ol style="list-style-type: none"> More Factoring of Quadratic Trinomials (where a does not equal zero) Factoring the Difference of Two Squares Factoring Expressions Completely (using combined concepts) 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 		<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To factor an expression by factoring a common factor from each term. To factor quadratic trinomials with a quadratic coefficient of one. 	How are the concepts of factoring a quadratic trinomials and FOIL Method related to each other mathematically?	<ol style="list-style-type: none"> To factor a quadratic trinomial with a quadratic coefficient not equal to one. To factor the difference of two squares. 	How do you use the concept of factoring by grouping to factor a quadratic trinomial?
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Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p> <p>Test: On the concepts of Factoring.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 17		Week 18	
Performance Standards		Performance Standards	
<p>The students will: 10.P.5 Find solutions to quadratic equations. 12.P.7 Find solutions to quadratic equations. 12.P.8 Solve a variety of equations and inequalities. 12.P.12 Identify maximum and minimum values of a function.</p>		<p>The students will: 10.P.5 Find solutions to quadratic equations. 12.P.7 Find solutions to quadratic equations. 12.P.8 Solve a variety of equations and inequalities.</p>	
Unit/Topic/Lesson UNIT SEVEN Quadratic Functions		Unit/Topic/Lesson UNIT SEVEN Quadratic Functions	
<ol style="list-style-type: none"> 1. Introduction to Quadratic Functions and Equations 2. Transformation of Quadratic Functions 3. Vertex Form of a Quadratic Function 4. Standard Form of a Quadratic Function 5. Properties of Quadratic Functions 		<ol style="list-style-type: none"> 1. Solving a Quadratic Equation by Factoring 2. Solving a Quadratic Equation by Graphing on Paper 3. Solving a Quadratic Equation by Graphing with the Graphing Calculator 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To transform quadratic functions. 2. To write quadratic function in various forms. 3. To identify properties of given quadratic functions. 	<p>How do you determine the minimum and maximum value of a quadratic function from the equation?</p>	<ol style="list-style-type: none"> 1. To solve a quadratic equation by factoring and the zero-product property. 2. To solve a quadratic equation by graphing and determining the zeros. 3. To use a graphing calculator to find the roots of a quadratic equation. 	<p>How does the concept of the zero-product property allow you to find the roots of a quadratic function?</p>
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Week 19		Week 20	
Performance Standards		Performance Standards	
<p>The students will: 10.P.5 Find solutions to quadratic equations. 12.P.7 Find solutions to quadratic equations. 12.P.8 Solve a variety of equations and inequalities.</p>		<p>The students will: 10.P.5 Demonstrate an understanding of the relationship between various representations of a line. 10.P.6 Find linear equations that represent lines parallel or perpendicular to given lines. 12.N.1 Define complex numbers and operations on them.</p>	
Unit/Topic/Lesson UNIT SEVEN Quadratic Functions		Unit/Topic/Lesson UNIT SEVEN Quadratic Functions	
<ol style="list-style-type: none"> Concept of Completing the Square Solving a Quadratic Equation by Completing the Square 		<ol style="list-style-type: none"> Real Numbers and Types of Numbers Classifications of Numbers Rational and Irrational Numbers Imaginary Numbers Powers of i 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 		<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To complete the procedure of completing the square. To use the concept of completing the square to solve a quadratic equation. 	<p>How do you use the concept of completing the square to both put a quadratic equation in standard form and find the roots of that quadratic function?</p>	<ol style="list-style-type: none"> To classify different types of numbers. To determine whether a number is rational or irrational. To work with imaginary numbers 	<p>How are the powers of i derived and how are they cyclic?</p>
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<p><i>Bittinger Immediate Algebra</i> ©2002</p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<p><i>Bittinger Immediate Algebra</i> ©2002</p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
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<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>

Week 21		Week 22	
Performance Standards		Performance Standards	
<p>The students will: 10.P.5 Find solutions to quadratic equations. 12.P.7 Find solutions to quadratic equations. 12.P.8 Solve a variety of equations and inequalities.</p>		<p>The students will: 12.P.6 Recognize functions as polynomial, rational, logarithmic, or exponential. 12.P.3 Demonstrate an understanding of the binomial theorem 12.P.11 Solve everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, step functions, absolute value and square roots.</p>	
Unit/Topic/Lesson UNIT SEVEN Quadratic Functions		Unit/Topic/Lesson UNIT EIGHT Operations with Polynomials	
<ol style="list-style-type: none"> Solving a Quadratic Equation by Using the Quadratic Formula Classifying Solutions Using the Discriminant 		<ol style="list-style-type: none"> Classification of Polynomials Addition and Subtraction of Polynomials Multiplication of Polynomials 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 		<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To use the Quadratic Formula to solve a quadratic equation. To use the Discriminant to determine the number and nature of the roots. 	How do you use the concept of completing the square to both put a quadratic equation in standard form and find the roots of that quadratic function?	<ol style="list-style-type: none"> To identify, evaluate, add, and subtract polynomials. To multiply polynomials. To use binomial expansion to expand binomial expressions that are raised to various positive integer powers. 	How is multiplying any two polynomials just an expansion of the distributive property?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Immediate Algebra ©2002</i> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<i>Bittinger Immediate Algebra ©2002</i> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
Evaluation/Activities	Completion date:	Evaluation/Activities	Completion date:
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Quadratic Functions</p>	<p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>

Week 23		Week 24	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 12.P.6 Recognize functions as polynomial, rational, logarithmic, or exponential. 12.P.3 Demonstrate an understanding of the binomial theorem 12.P.11 Solve everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, step functions, absolute value and square roots.</p>		<p><i>The students will:</i> 12.P.4 Demonstrate an understanding of exponential and logarithmic functions. 12.P.5 Perform operations on functions, including composition. Find the inverses of functions. 12.P.6 Recognize functions as polynomial, rational, logarithmic, or exponential. 12.P.11 Solve everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, step functions, absolute value and square roots.</p>	
Unit/Topic/Lesson UNIT EIGHT Operations with Polynomials		Unit/Topic/Lesson UNIT NINE Exponential and Logarithmic Functions	
<ol style="list-style-type: none"> Long Division of Polynomials Synthetic Division of Polynomials Factoring Polynomials 		<ol style="list-style-type: none"> Exponential Functions Exponential Growth and Decay Inverse of Relations and Functions 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To use long division and synthetic division to divide polynomials. To determine factors of a polynomial. To factor a polynomial by grouping. To factor the sum or difference of two cubes. 	Why is it important to supply a zero for a coefficient of any missing term, when you are divide polynomials?	<ol style="list-style-type: none"> To write and evaluate exponential expressions to model growth or decay situations. To graph and recognize inverses of both relations and functions. To find inverse of functions. 	How do you use the concept of exponential growth to work with the principle of compound interest?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Immediate Algebra ©2002</i> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<i>Bittinger Immediate Algebra ©2002</i> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
Evaluation/Activities	Completion date:	Evaluation/Activities	Completion date:
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Polynomials.</p>	<p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>

Week 25		Week 26	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 12.P.4 Demonstrate an understanding of exponential and logarithmic functions. 12.P.6 Recognize functions as polynomial, rational, logarithmic, or exponential. 12.P.11 Solve everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, step functions, absolute value and square roots.</p>		<p><i>The students will:</i> 12.P.6 Recognize functions as polynomial, rational, logarithmic, or exponential.</p>	
Unit/Topic/Lesson UNIT NINE Exponential and Logarithmic Functions		Unit/Topic/Lesson UNIT TEN Rational Functions	
<ol style="list-style-type: none"> Logarithmic Functions Properties of Logarithms 		<ol style="list-style-type: none"> Simplifying Rational Expressions Multiplication of Rational Expressions Division of Rational Expressions 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To write equivalent forms for exponential and logarithmic functions. To write, graph, and evaluate logarithmic functions. To use the properties of logarithms to simplify logarithmic expressions. To translate between logarithms in any base. 	<p>How do you convert between exponential and logarithmic form?</p>	<ol style="list-style-type: none"> To simplify rational expressions. To multiply and divide rational expressions. 	<p>Why is it important to state the restricted values before simplifying a rational expression?</p>
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<p><i>Bittinger Immediate Algebra</i> ©2002</p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<p><i>Bittinger Immediate Algebra</i> ©2002</p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Exponential and Logarithmic Functions</p>	<p>Completion date: Completed by: Comments:</p>	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date: Completed by: Comments:</p>

Week 27		Week 28	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 12.P.6 Recognize functions as polynomial, rational, logarithmic, or exponential. 12.P.11 Solve everyday problems that can be modeled using polynomial, rational, exponential, logarithmic, step functions, absolute value and square roots.</p>		<p><i>The students will:</i> 12.P.6 Recognize functions as polynomial, rational, logarithmic, or exponential. 12.N.2 Simplify numerical expressions with powers and roots, including fractional and negative exponents.</p>	
Unit/Topic/Lesson UNIT TEN Rational Functions		Unit/Topic/Lesson UNIT ELEVEN Radical Functions	
<ol style="list-style-type: none"> Addition of Rational Expressions Subtraction of Rational Expressions 		<ol style="list-style-type: none"> Simplification of Radical Expressions Properties of Radical Exponents 	
Objectives	Essential Question	Objectives	Essential Question
<ol style="list-style-type: none"> To add rational expressions. To subtract rational expressions. 	How do you know when a rational expression can be simplified?	<ol style="list-style-type: none"> To rewrite radical expressions by using rational exponents. To simplifying and evaluate radical expressions and expressions with rational exponents. 	How do the concepts of n th roots relate with rational exponents?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Immediate Algebra</i> ©2002 <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<i>Bittinger Immediate Algebra</i> ©2002 <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
Evaluation/Activities	Completion date:	Evaluation/Activities	Completion date:
<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Rational Functions.</p>	Completed by:	<p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	Comments:

Week 29		Week 30	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 12.P.6 Recognize functions as polynomial, rational, logarithmic, or exponential. 12.N.2 Simplify numerical expressions with powers and roots, including fractional and negative exponents.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 12.G.4 Relate geometric and algebraic representations of line, curves, and conic sections.</p>	
<p align="center">Unit/Topic/Lesson UNIT ELEVEN Radical Functions</p> <p>1. Radical Functions 2. Solving Radical Equations</p>		<p align="center">Unit/Topic/Lesson UNIT THIRTEEN Conic Sections</p> <p>1. Introduction to Conic Sections 2. Parabolas 3. Circles</p>	
<p align="center">Objectives</p> <p>1. To graph radical functions. 2. To solve radical equations.</p>	<p align="center">Essential Question</p> <p>Why is it necessary to check the possible solutions for extraneous roots when solving a radical equation?</p>	<p align="center">Objectives</p> <p>1. To recognize conic sections as intersections of planes and cones. 2. To write the equation of parabola and identify its focus, directrix, and the axis of symmetry. 3. To write the equation of a circle and identify its center and radius.</p>	<p align="center">Essential Question</p> <p>How can a circle be defined in terms of distances?</p>
<p align="center">Teacher Resources <i>Bittinger Immediate Algebra ©2002</i></p> <p>1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments</p>	<p align="center">Media Resources</p> <p>1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments</p>	<p align="center">Teacher Resources <i>Bittinger Immediate Algebra ©2002</i></p> <p>1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments</p>	<p align="center">Media Resources</p> <p>1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments</p>
<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Radical Functions.</p>	<p>Completion date: Completed by: Comments:</p>	<p align="center">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date: Completed by: Comments:</p>

Week 31		Week 32	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 12.G.4 Relate geometric and algebraic representations of line, curves, and conic sections.</p>		<p><i>The students will:</i> 12.G.4 Relate geometric and algebraic representations of line, curves, and conic sections.</p>	
Unit/Topic/Lesson UNIT THIRTEEN Conic Sections		Unit/Topic/Lesson UNIT THIRTEEN Conic Sections	
<ol style="list-style-type: none"> Ellipses Hyperbolas 		<ol style="list-style-type: none"> Identification of Conic Sections Review of Conic Sections 	
Objectives	Objectives	Objectives	Essential Question
<ol style="list-style-type: none"> To write the equation of an ellipse and identify its center, vertices, co-vertices, and foci. To write the equation of a hyperbola and identify its vertices, co-vertices, center, foci, and asymptotes. 	How do foci of an ellipse relate to the concept of distance?	<ol style="list-style-type: none"> To identify and transform conic sections. To use completing the square to identify and graph conic sections. 	How do you determine which conic section is being described by looking at the equation?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Immediate Algebra ©2002</i> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<i>Bittinger Immediate Algebra ©2002</i> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
Evaluation/Activities		Evaluation/Activities	
<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p> <p>Test: On the concepts involving Conic Sections.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 33		Week 34	
Performance Standards		Performance Standards	
<p>The students will:</p> <p>12.P.1 Describe, complete, extend, analyze, generalize, and create a wide variety of patterns, including iterative and recursive patterns such as Pascal's Triangle.</p> <p>12.P.2 Identify arithmetic and geometric sequences and finite arithmetic and geometric series. Use the properties of such sequences and series to solve problems, including finding the general term and sum recursively and explicitly.</p>		<p>The students will:</p> <p>12.P.1 Describe, complete, extend, analyze, generalize, and create a wide variety of patterns, including iterative and recursive patterns such as Pascal's Triangle.</p> <p>12.P.2 Identify arithmetic and geometric sequences and finite arithmetic and geometric series. Use the properties of such sequences and series to solve problems, including finding the general term and sum recursively and explicitly.</p>	
Unit/Topic/Lesson UNIT FOURTEEN Sequences and Series		Unit/Topic/Lesson UNIT THIRTEEN Sequences and Series	
<ol style="list-style-type: none"> 1. Algebraic Sequences 2. Algebraic Series 		<ol style="list-style-type: none"> 1. Geometric Sequences 2. Geometric Series 	
Objectives	Objectives	Objectives	Essential Question
<ol style="list-style-type: none"> 1. To find the indicated terms of an arithmetic sequence. 2. To find the sums of an arithmetic series. 	How do you find the n th term of an arithmetic sequence without finding all of the terms prior to that term?	<ol style="list-style-type: none"> 1. To find the indicated terms of an geometric sequence. 2. To find the sums of a geometric series 	When can you find the sum of an infinite series?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Immediate Algebra ©2002</i> <ol style="list-style-type: none"> 1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments 	<ol style="list-style-type: none"> 1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments 	<i>Bittinger Immediate Algebra ©2002</i> <ol style="list-style-type: none"> 1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments 	<ol style="list-style-type: none"> 1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments
Evaluation/Activities	Completion date:	Evaluation/Activities	Completion date:
<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completed by:</p> <p>Comments:</p>	<p>Homework: To be given daily on each introduced topic</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p> <p>Test: On the concepts of Sequences and Series.</p>	<p>Completed by:</p> <p>Comments:</p>

Week 35		Week 36	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 12.P.4 Demonstrate an understanding of trigonometric, exponential and logarithmic functions. 12.G.1 Define the sine, cosine, and tangent of an acute angle. Apply to the solution of problems. 12.P.6 Given algebraic, numeric and/or graphical representations, recognize functions as polynomial, rational, logarithmic, exponential, or trigonometric.</p>		<p><i>The students will:</i> 12.P.4 Demonstrate an understanding of trigonometric, exponential and logarithmic functions. 12.G.1 Define the sine, cosine, and tangent of an acute angle. Apply to the solution of problems. 12.P.6 Given algebraic, numeric and/or graphical representations, recognize functions as polynomial, rational, logarithmic, exponential, or trigonometric.</p>	
Unit/Topic/Lesson UNIT FOURTEEN Trigonometric Functions		Unit/Topic/Lesson UNIT FOURTEEN Trigonometric Functions	
<ol style="list-style-type: none"> 1. Right Angle Trigonometry 2. Angles of Rotation 		<ol style="list-style-type: none"> 1. The Unit Circle 2. Inverse Trigonometric Functions 	
Mission and Expectations		Mission and Expectations	
<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 		<ol style="list-style-type: none"> 1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills 	
<p style="text-align: center;">Objectives</p> <ol style="list-style-type: none"> 1. To understand and use trigonometric relationships of acute angles in triangles. 2. To determine side lengths of right triangles by using trigonometric functions. 3. To draw angles in standard position. 4. To determine values of the trigonometric functions for an angle in standard position. 	<p style="text-align: center;">Essential Question</p> <p>How do you use right trigonometric ratios to find missing sides of right triangles?</p>	<p style="text-align: center;">Objectives</p> <ol style="list-style-type: none"> 1. To convert angle measures between degrees and radians. 2. To find the values of trigonometric functions on the unit circle. 3. To evaluate inverse trigonometric functions. 4. To use trigonometric functions and inverse trigonometric functions to solve problems. 	<p style="text-align: center;">Essential Question</p> <p>How do you convert angle measure between degrees and radians and why would this conversion be necessary?</p>
<p style="text-align: center;">Teacher Resources</p> <p><i>Bittinger Immediate Algebra ©2002</i></p> <ol style="list-style-type: none"> 1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments 	<p style="text-align: center;">Media Resources</p> <ol style="list-style-type: none"> 1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments 	<p style="text-align: center;">Teacher Resources</p> <p><i>Bittinger Immediate Algebra ©2002</i></p> <ol style="list-style-type: none"> 1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments 	<p style="text-align: center;">Media Resources</p> <ol style="list-style-type: none"> 1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments
<p style="text-align: center;">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>	<p style="text-align: center;">Evaluation/Activities</p> <p>Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum. Test: On the concepts of Trigonometric Functions.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Teacher:

Algebra Two CP1 (331)

2009-2010