

Curriculum Map
Algebra One CP1 (311)
Saugus High School
Saugus Public Schools

Week 1		Week 2	
Performance Standards		Performance Standards	
<i>The students will:</i>		<i>The students will:</i>	
10.N.1 Identify and use the properties of operations on real numbers. 10.N.2 Simplify numerical expressions.		10.N.1 Identify and use the properties of operations on real numbers. 10.N.2 Simplify numerical expressions.	
Unit/Topic/Lesson UNIT ONE BASIC ALGEBRAIC CONCEPTS		Unit/Topic/Lesson UNIT ONE BASIC ALGEBRAIC CONCEPTS	
1. Variables and Algebraic Expressions 2. Real Numbers and Absolute Value 3. Adding and Subtracting Real Numbers		1. Multiplying and Dividing Real Numbers 2. Bases, Powers, and Exponents	
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
1. To translate between words and algebra. 2. To evaluate algebraic expressions. 3. To compare real numbers. 4. To simplify algebraic expressions. 5. To add and subtract real numbers. 6.	What is the difference between a numerical expression and an algebraic expression?	1. To multiply and divide real numbers. 2. To evaluate expressions that contains exponents.	Why is it critical to put parenthesis around the base if the base is negative?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Elementary Algebra</i> ©2002 1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments	1. Teacher-Made PowerPoint Presentations 2. Bittinger Test Generator 3. Electronic Worksheets in TeacherShared Folder 4. Teacher-Made Web-Based Assessments	<i>Bittinger Elementary Algebra</i> ©2002 1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments	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:
Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.	Completed by: Comments:	Homework: To be given daily on each introduced topic Review: All weekly concepts. Quiz: Assessments given as warranted by the curriculum.	Completed by: Comments:

Week 3		Week 4	
<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 BASIC ALGEBRAIC CONCEPTS</p> <p>1. Types of Numbers (Rational v. Irrational) 2. Square Roots</p>		<p align="center">Unit/Topic/Lesson UNIT ONE BASIC ALGEBRAIC CONCEPTS</p> <p>1. Order of Operations (PEMDAS) 2. Simplifying Expressions with Real Numbers</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 numbers within the real number system. 2. To find and approximate values of square roots.</p>	<p align="center">Essential Question</p> <p>How do you approximate the value of a square root without the use of a calculator?</p>	<p align="center">Objectives</p> <p>1. To use the order of orders to simplify expressions involving real numbers. 2. To use properties of equality to simplify expressions. 3. To combine like terms in an algebraic expression.</p>	<p align="center">Essential Question</p> <p>When using PEMDAS to simplify an expression, must multiplication occur prior to division?</p>
<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary 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 Elementary 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: 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. Test: On the concept of Basic Algebra.</p>	<p>Completion date: Completed by: Comments:</p>

Week 5		Week 6	
<p align="center">Performance Standards</p> <p><i>The students will:</i></p> <p>10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i></p> <p>10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p>	
<p align="center">Unit/Topic/Lesson UNIT TWO SOLVING EQUATIONS</p> <ol style="list-style-type: none"> Solving Equations by Adding and Subtracting (One-Step) Solving Equations by Multiplying and Dividing (One-Step) 		<p align="center">Unit/Topic/Lesson UNIT TWO SOLVING EQUATIONS</p> <ol style="list-style-type: none"> Solving Two-Step Equations Solving Multi-Step Equations Solving Equations Involving the Distributive Property. 	
<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> <ol style="list-style-type: none"> To solve one-step equations in one variable by using addition or subtraction. To solve equations in one variable by using multiplication or division. 	<p align="center">Essential Question</p> <p>How do you decide which inverse operation to use first when solving a two-step equation?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To solve equations in one or more variables that contains more than one operation. To solve equations in one variable that contains more than one operation. To use the distributive when necessary to solve equations. 	<p align="center">Essential Question</p> <p>How do you decide the order in which you solve an equation that requires several steps?</p>
<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
<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.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 7		Week 8	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p>		<p><i>The students will:</i> 10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p>	
Unit/Topic/Lesson UNIT TWO SOLVING EQUATIONS		Unit/Topic/Lesson UNIT TWO SOLVING EQUATIONS	
<ol style="list-style-type: none"> 1. Solving Equations with Variables on Both Sides 2. Solving for a Variable 		<ol style="list-style-type: none"> 1. Review of Solving Linear Equations in One Variable 2. Solving Word Problems Involving Linear Equations 	
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 equations in one variable with variables on both sides of the equation. 2. To solve an equation with two or variables for one of the variables 	In what situations would it be necessary to solve an equation for a given variable?	<ol style="list-style-type: none"> 1. To review all the method and procedures for solving a linear equation in one variable. 2. To solve a variety of word problems that involves linear equation concepts. 	How do you apply your skills and understanding of linear equation translate into solving a variety of word problems?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Elementary 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 Elementary 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		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 9		Week 10	
Performance Standards		Performance Standards	
<p><i>The students will:</i></p> <p>10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p> <p><i>The students will:</i></p>		<p><i>The students will:</i></p> <p>10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p> <p><i>The students will:</i></p>	
Unit/Topic/Lesson UNIT TWO SOLVING EQUATIONS		Unit/Topic/Lesson UNIT THREE SOLVING INEQUALITIES AND ABSOLUTE VALUES	
<ol style="list-style-type: none"> 1. Solving Problems Using Formulas 2. Solving Problems Using Literal Equations 		<ol style="list-style-type: none"> 1. Graphing and Writing Inequalities 2. Solving Basic One-Step Inequalities 3. Solving Two-Step Inequalities 	
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 a formula for a given variable. 2. To solve problems involving literal equations. 	How do you use formula, where the unknown variable is not the variable solved for in the formula?	<ol style="list-style-type: none"> 1. To graph and write inequalities in one variable. 2. To solve one and two step inequalities in one variable. 	How is the approach for solving a linear inequality different and the same as solving a linear equation?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Elementary Algebra</i> ©2002 <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 Elementary Algebra</i> ©2002 <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		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>Test: On the concepts of Solving Equations.</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 11		Week 12	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p>		<p><i>The students will:</i> 10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p>	
Unit/Topic/Lesson UNIT THREE SOLVING INEQUALITIES AND ABSOLUTE VALUES		Unit/Topic/Lesson UNIT THREE SOLVING INEQUALITIES AND ABSOLUTE VALUES	
<ol style="list-style-type: none"> Solving Multi-Step Inequalities Solving Inequalities with Variables on Both Sides 		<ol style="list-style-type: none"> Solving Compound Inequalities 	
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 multi-step inequalities in one variable. To solve inequalities in one variable that contains variables on both sides. 	How do you change from the variable being on the right side of the inequality to the left side of the inequality without changing the meaning of the inequality?	<ol style="list-style-type: none"> To solve compound inequalities. 	How do you decide whether a compound inequality represents an intersection or a union?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Elementary 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 Elementary 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>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 13		Week 14	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 10.P.6 Solve equations and inequalities including those involving absolute value of linear expressions (e.g., $x - 2 > 5$) and apply to the solution of problems.</p>		<p><i>The students will:</i> 10.P.1 Describe, complete, extend, analyze, generalize, and create a wide variety of patterns, including iterative, recursive (e.g., Fibonacci Numbers), linear, quadratic, and exponential functional relationships.</p>	
Unit/Topic/Lesson UNIT THREE SOLVING INEQUALITIES AND ABSOLUTE VALUES		Unit/Topic/Lesson UNIT FOUR PROPORTIONS AND PERCENTS	
<ol style="list-style-type: none"> Absolute Value Equations Absolute Value Inequalities 		<ol style="list-style-type: none"> Rates, Ratios, and Proportions Applications of Proportions 	
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 absolute value equations in one variable. To solve absolute value inequalities in one variable. 	How do you determine whether an absolute value inequality should be written as an intersection or a union?	<ol style="list-style-type: none"> To write and use ratios, rates, and unit price. To write and solve proportions. To use proportions to solve problems involving geometric figure. To use proportions and similar figures to measure objects indirectly. 	How do you determine whether a proportion is true or false?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Elementary 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 Elementary 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</p> <p>Review: All weekly concepts.</p> <p>Quiz: Assessments given as warranted by the curriculum.</p> <p>Test: On the concepts of Solving Inequalities and Absolute Values.</p>	Completed by:	<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>	Comments:

Week 15		Week 16	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.1 Describe, complete, extend, analyze, generalize, and create a wide variety of patterns, including iterative, recursive (e.g., Fibonacci Numbers), linear, quadratic, and exponential functional relationships.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.1 Describe, complete, extend, analyze, generalize, and create a wide variety of patterns, including iterative, recursive (e.g., Fibonacci Numbers), linear, quadratic, and exponential functional relationships. 10.P.2 Demonstrate an understanding of the relationship between various representations of a line. Determine a line's slope and x- and y-intercepts from its graph or from a linear equation that represents the line. Find a linear equation describing a line from a graph or a geometric description of the line, e.g., by using the "point-slope" or "slope y-intercept" formulas. Explain the significance of a positive, negative, zero, or undefined slope.</p>	
<p align="center">Unit/Topic/Lesson UNIT FOUR PROPORTIONS AND PERCENTS</p> <ol style="list-style-type: none"> Percents Applications of Percents 		<p align="center">Unit/Topic/Lesson UNIT FIVE LINEAR FUNCTIONS</p> <ol style="list-style-type: none"> Relations and Functions Writing, Evaluating, and Graphing Functions Identifying Linear Functions 	
<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> <ol style="list-style-type: none"> To solve basic percent problems. To use common applications of percents. To estimate with percents 	<p align="center">Essential Question</p> <p>What is the procedure for converting a decimal or a fraction to a percent?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To identify relations and functions. To find the domain and range of relations and functions. To identify independent and dependent variables. To write an equation in function notation and evaluate a function for given input values. 	<p align="center">Essential Question</p> <p>How do you determine whether a relation is a function and how to you determine both its domain and range?</p>
<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
<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 Proportions and Ratios.</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.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 17		Week 18	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.2 Demonstrate an understanding of the relationship between various representations of a line. Determine a line's slope and x- and y-intercepts from its graph or from a linear equation that represents the line. Find a linear equation describing a line from a graph or a geometric description of the line, e.g., by using the "point-slope" or "slope y-intercept" formulas. Explain the significance of a positive, negative, zero, or undefined slope.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.2 Demonstrate an understanding of the relationship between various representations of a line. Determine a line's slope and x- and y-intercepts from its graph or from a linear equation that represents the line. Find a linear equation describing a line from a graph or a geometric description of the line, e.g., by using the "point-slope" or "slope y-intercept" formulas. Explain the significance of a positive, negative, zero, or undefined slope.</p>	
<p align="center">Unit/Topic/Lesson UNIT FIVE LINEAR FUNCTIONS</p> <ol style="list-style-type: none"> Graphs of Linear Functions Using Intercepts to Graph Linear Functions (Standard Form) Rate of Change and Definition of Slope 		<p align="center">Unit/Topic/Lesson UNIT FIVE LINEAR FUNCTIONS</p> <ol style="list-style-type: none"> The Formula for Slope Forms of Linear Function (Standard Form) Forms of Linear Function (Slope-Intercept) Forms of Linear Function (Point-Slope) 	
<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> <ol style="list-style-type: none"> To identify linear functions and equations. To graph linear functions that represents real- world situations and gives their domain and range. To use the x- and y- intercepts to graph lines. To find rates of change and slopes. To relate a constant rate of change to the slope of a line. 	<p align="center">Essential Question</p> <p>What is the slope of a given line and how do you find it both graphically and algebraically?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To find the slope by using the formula for slope. To write a linear equation in slope-intercept form. To graph a line using slope-intercept form. To graph a line and write a linear equation using point-slope form. To write a linear equation given two points. 	<p align="center">Essential Question</p> <p>When would you use each of the various form of a linear equation?</p>
<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
<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.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 19		Week 20	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.2 Demonstrate an understanding of the relationship between various representations of a line. Determine a line's slope and x- and y-intercepts from its graph or from a linear equation that represents the line. Find a linear equation describing a line from a graph or a geometric description of the line, e.g., by using the "point-slope" or "slope y-intercept" formulas. Explain the significance of a positive, negative, zero, or undefined slope.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.8 Solve everyday problems that can be modeled using systems of linear equations or inequalities. Apply algebraic and graphical methods to the solution. Use technology when appropriate. Include mixture, rate, and work problems.</p>	
<p align="center">Unit/Topic/Lesson UNIT FIVE LINEAR FUNCTIONS</p> <ol style="list-style-type: none"> Slopes of Parallel and Perpendicular Lines Writing Linear Equations (Given Various Pieces of Information) 		<p align="center">Unit/Topic/Lesson UNIT SIX SYSTEMS OF LINEAR EQUATIONS AND INEQUALITIES</p> <ol style="list-style-type: none"> Solving a System of Linear Equations (Graphically on Paper) Consistent and Inconsistent Systems Independent and Dependent Systems 	
<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> <ol style="list-style-type: none"> To identify and graph parallel lines and perpendicular lines. To write equations to describe lines parallel or perpendicular to a given line. To write linear equations given a various combinations of information. 	<p align="center">Essential Question</p> <p>What is the relationship between the slopes of perpendicular and parallel lines?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To solve a system of two linear equations by graphing and determining the point of intersection. To determine whether systems are independent or dependent. To determine whether systems are consistent or inconsistent. 	<p align="center">Essential Question</p> <p>How do the concepts of slope and y-intercept determine whether systems of linear equations are independent or dependent and consistent or inconsistent?</p>
<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<p align="center">Teacher Resources</p> <p><i>Bittinger Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittinger Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
<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 Linear Functions.</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.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 21	
Performance Standards	
<p><i>The students will:</i> 10.P.8 Solve everyday problems that can be modeled using systems of linear equations or inequalities. Apply algebraic and graphical methods to the solution. Use technology when appropriate. Include mixture, rate, and work problems.</p>	
Unit/Topic/Lesson UNIT SIX SYSTEMS OF LINEAR EQUATIONS AND INEQUALITIES	
<ol style="list-style-type: none"> Solving a System of Linear Equations (Substitution Method) Solving a System of Linear Equations (Elimination Method) 	
Mission and Expectations	
<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 	
Objectives	Essential Question
<ol style="list-style-type: none"> To solve a system of two linear equations algebraically using substitution. To solve a system of two linear equations algebraically using elimination. 	When would use the substitution method rather than the elimination method to solve a system of linear equations?
Teacher Resources	Media Resources
<i>Bittinger Elementary 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:
<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>	Completed by:
	Comments:

Week 22	
Performance Standards	
<p><i>The students will:</i> 10.P.8 Solve everyday problems that can be modeled using systems of linear equations or inequalities. Apply algebraic and graphical methods to the solution. Use technology when appropriate. Include mixture, rate, and work problems.</p>	
Unit/Topic/Lesson UNIT SIX SYSTEMS OF LINEAR EQUATIONS AND INEQUALITIES	
<ol style="list-style-type: none"> Solving and Graphing a Linear Inequalities with Two Variables Solving a System of Linear Inequalities 	
Mission and Expectations	
<ol style="list-style-type: none"> Critical Thinking Skills Problem Solving Skills Test Taking Skills 	
Objectives	Essential Question
<ol style="list-style-type: none"> To solve and graph linear inequalities with two variables. To solve a system of linear inequalities. 	When you graph a linear inequality, how do you determine the region that is to be shaded?
Teacher Resources	Media Resources
<i>Bittinger Elementary 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:
<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 Systems of Linear Equations and Inequalities.</p>	Completed by:
	Comments:

Week 23		Week 4	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.3 Add, subtract, and multiply polynomials. Divide polynomials by monomials.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.3 Add, subtract, and multiply polynomials. Divide polynomials by monomials.</p>	
<p align="center">Unit/Topic/Lesson UNIT SEVEN LAWS OF EXPONENTS</p> <ol style="list-style-type: none"> Integer Exponents Negative Exponents Zero Exponents 		<p align="center">Unit/Topic/Lesson UNIT SEVEN LAWS OF EXPONENTS</p> <ol style="list-style-type: none"> Multiplying Monomials Multiplication Property (Product of Powers Property) Multiplication Property (Power of a Power Property) Multiplication Property (Power of Product Property) 	
<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To evaluate expressions containing zero and integer exponents. To simplify expressions containing zero and integer exponents. 	<p align="center">Essential Question</p> <p>How do you convert an expression so that it does not contain negative exponents?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To multiply monomials. To use multiplication properties of exponents to evaluate and simplify expressions. 	<p align="center">Essential Question</p> <p>How can you check your answers when multiplying monomials to be certain you used each property correctly?</p>
<p align="center">Teacher Resources</p> <p><i>Bittering Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittering Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<p align="center">Teacher Resources</p> <p><i>Bittering Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittering Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
<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.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 25		Week 26	
<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.3 Add, subtract, and multiply polynomials. Divide polynomials by monomials.</p>		<p align="center">Performance Standards</p> <p><i>The students will:</i> 10.P.7 everyday problems that can be modeled using linear, reciprocal, quadratic, or exponential functions. Apply appropriate tabular, graphical, or symbolic methods to the solution. Include compound interest, and direct and inverse variation problems. Use technology when appropriate.</p>	
<p align="center">Unit/Topic/Lesson UNIT SEVEN LAWS OF EXPONENTS</p> <ol style="list-style-type: none"> Dividing Monomials Division Property (Quotient of Powers Property) Division Property (Positive Power of a Quotient Property) Division Property (Negative Power of a Quotient Property) 		<p align="center">Unit/Topic/Lesson UNIT SEVEN LAWS OF EXPONENTS</p> <ol style="list-style-type: none"> Scientific Notation (Powers of Ten) 	
<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>		<p align="center">Mission and Expectations</p> <p><i>1. Critical Thinking Skills 2. Problem Solving Skills 3. Test Taking Skills</i></p>	
<p align="center">Objectives</p> <ol style="list-style-type: none"> To divide monomials To use division properties of exponents to evaluate and simplify expressions. 	<p align="center">Essential Question</p> <p>What does the concept of a negative exponent mean, as it relates to size of a number or where the variable should be in a quotient?</p>	<p align="center">Objectives</p> <ol style="list-style-type: none"> To evaluate and multiply by powers of ten. To convert between standard notation and scientific notation. 	<p align="center">Essential Question</p> <p>Why would you use scientific notation to represent a number?</p>
<p align="center">Teacher Resources</p> <p><i>Bittering Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittering Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments 	<p align="center">Teacher Resources</p> <p><i>Bittering Elementary Algebra ©2002</i></p> <ol style="list-style-type: none"> Textbook Lessons and Exercises Teacher-Made Worksheets Teacher-Made Assessments 	<p align="center">Media Resources</p> <ol style="list-style-type: none"> Teacher-Made PowerPoint Presentations Bittering Test Generator Electronic Worksheets in TeacherShared Folder Teacher-Made Web-Based Assessments
<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 concepts involving the Laws of Exponents.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 27		Week 28	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 10.P.3 Add, subtract, and multiply polynomials. Divide polynomials by monomials.</p>		<p><i>The students will:</i> 10.P.3 Add, subtract, and multiply polynomials. Divide polynomials by monomials.</p>	
Unit/Topic/Lesson UNIT EIGHT POLYNOMIALS		Unit/Topic/Lesson UNIT EIGHT POLYNOMIALS	
<ol style="list-style-type: none"> 1. Classification of Polynomials 2. Addition and Subtraction of Polynomials 3. Multiplication of Polynomials by a Monomial 4. Division of Polynomial by a Monomial 		<ol style="list-style-type: none"> 1. Multiplication of Binomials 2. Multiplication of Polynomials 3. Special Products 	
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 classify polynomials and write polynomials in standard form. 2. To evaluate polynomial expressions. 3. To add and subtract polynomials. 4. To multiply and divide polynomials by monomials. 	How does the concept of combining like terms work as it relates to operations with polynomials?	<ol style="list-style-type: none"> 1. To multiply two binomials using the FOIL Method. 2. To expand that method to multiply polynomials in general. 3. To calculate the special products of binomials. 	How is the FOIL Method an expansion of the distributive property?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Elementary Algebra</i> ©2002 <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 Elementary Algebra</i> ©2002 <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		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 Polynomials.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 29		Week 30	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 10.P.4 Demonstrate facility in symbolic manipulation of polynomial and rational expressions by rearranging and collecting terms; factoring (e.g., $a^2 - b^2 = (a + b)(a - b)$, $x^2 + 10x + 21 = (x + 3)(x + 7)$, $5x^4 + 10x^3 - 5x^2 = 5x^2(x^2 + 2x - 1)$); identifying and canceling common factors in rational expressions; and applying the properties of positive integer exponents.</p>		<p><i>The students will:</i> 10.P.4 Demonstrate facility in symbolic manipulation of polynomial and rational expressions by rearranging and collecting terms; factoring (e.g., $a^2 - b^2 = (a + b)(a - b)$, $x^2 + 10x + 21 = (x + 3)(x + 7)$, $5x^4 + 10x^3 - 5x^2 = 5x^2(x^2 + 2x - 1)$); identifying and canceling common factors in rational expressions; and applying the properties of positive integer exponents.</p>	
Unit/Topic/Lesson UNIT NINE FACTORING POLYNOMIALS		Unit/Topic/Lesson UNIT NINE FACTORING POLYNOMIALS	
<ol style="list-style-type: none"> Factors and Greatest Common Factors Factoring Polynomials by Common Factors (GCF) Factoring Special Polynomials 		<ol style="list-style-type: none"> Factoring Trinomials ($ax^2 + bx + c$) Factoring Perfect Square Trinomials Factoring the Difference of Two Squares 	
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 polynomials by using greatest common factor. To factor special polynomials 	<p>What is the relationship of the distributive property and the concept of factoring out a common factor from an expression?</p>	<ol style="list-style-type: none"> To factor quadratic trinomials. To factor perfect square trinomials. To factor the difference of two squares. 	<p>What is the relationship between factoring quadratic trinomials and the FOIL Method?</p>
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Elementary 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 Elementary 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 of Factoring Polynomials</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 31		Week 32	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 10.P.4 Demonstrate facility in symbolic manipulation of polynomial and rational expressions by rearranging and collecting terms; factoring (e.g., $a^2 - b^2 = (a + b)(a - b)$, $x^2 + 10x + 21 = (x + 3)(x + 7)$, $5x^4 + 10x^3 - 5x^2 = 5x^2(x^2 + 2x - 1)$); identifying and canceling common factors in rational expressions; and applying the properties of positive integer exponents.</p>		<p><i>The students will:</i> 10.P.4 Demonstrate facility in symbolic manipulation of polynomial and rational expressions by rearranging and collecting terms; factoring (e.g., $a^2 - b^2 = (a + b)(a - b)$, $x^2 + 10x + 21 = (x + 3)(x + 7)$, $5x^4 + 10x^3 - 5x^2 = 5x^2(x^2 + 2x - 1)$); identifying and canceling common factors in rational expressions; and applying the properties of positive integer exponents.</p>	
Unit/Topic/Lesson UNIT TEN RATIONAL FUNCTIONS AND EQUATIONS		Unit/Topic/Lesson UNIT TEN RATIONAL FUNCTIONS AND EQUATIONS	
<ol style="list-style-type: none"> 1. Inverse Variation 2. Rational Expressions Functions 3. Simplifying Rational Expressions 		<ol style="list-style-type: none"> 1. Addition and Subtraction of Rational Expressions (Same Denominators) 2. Multiplication of Rational Expressions 3. Division of Rational Expressions 	
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 <ol style="list-style-type: none"> 1. To identify, write, and graph inverse variations. 2. To identify excluded values of rational functions. 3. To graph rational functions. 4. To simplify rational expressions. 	Essential Question Why is the process of factoring important when you are simplifying rational expressions?	Objectives <ol style="list-style-type: none"> 1. To add and subtract rational expressions with like denominators. 2. To add and subtract rational expressions with unlike denominators. 3. To multiply rational expressions. 4. To divide rational expressions. 	Essential Question Why is it necessary to state restrictions when performing operations with rational expressions?
Teacher Resources <i>Bittinger Elementary Algebra</i> ©2002 <ol style="list-style-type: none"> 1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments 	Media Resources <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 	Teacher Resources <i>Bittinger Elementary Algebra</i> ©2002 <ol style="list-style-type: none"> 1. Textbook Lessons and Exercises 2. Teacher-Made Worksheets 3. Teacher-Made Assessments 	Media Resources <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 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:	Evaluation/Activities 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 and Equations.	Completion date: Completed by: Comments:

Week 33		Week 34	
Performance Standards		Performance Standards	
<p><i>The students will:</i> 10.N.3 Find the approximate value for solutions to problems involving square roots and cube roots without the use of a calculator, e.g., $\sqrt{3^2-1} \approx 2.8$.</p>		<p><i>The students will:</i> 10.N.3 Find the approximate value for solutions to problems involving square roots and cube roots without the use of a calculator, e.g., $\sqrt{3^2-1} \approx 2.8$.</p>	
Unit/Topic/Lesson UNIT ELEVEN RADICAL FUNCTIONS AND EQUATIONS		Unit/Topic/Lesson UNIT ELEVEN RADICAL FUNCTIONS AND EQUATIONS	
<ol style="list-style-type: none"> Square Roots and Simplifying Square Roots Simplification of Radicals Multiplying and Dividing Radicals 		<ol style="list-style-type: none"> Addition and Subtraction of Radicals (Like Radicals) Addition and Subtraction of Radicals (Unlike Radicals) Square-Root Functions 	
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 find the square roots of perfect square. To write radical expressions in simplest form. To multiply and divide radical expressions. To rationalize denominators. 	How do you determine whether a radical is in simplest form?	<ol style="list-style-type: none"> To add or subtract like radicals. To add or subtract unlike radicals by first simplifying. To identify the square-root function. 	What do you need before you can combine terms of radical expressions?
Teacher Resources	Media Resources	Teacher Resources	Media Resources
<i>Bittinger Elementary 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 Elementary 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 of Radical Functions and Equations.</p>	<p>Completion date:</p> <p>Completed by:</p> <p>Comments:</p>

Week 35

Performance Standards

The students will:
10.D.1 Select, create, and interpret an appropriate graphical representation (e.g., scatter plot, table, stem-and-leaf plots, box-and-whisker plots, circle graph, line graph, and line plot) for a set of data and use appropriate statistics (e.g., mean, median, range, and mode) to communicate information about the data. Use these notions to compare different sets of data.

Unit/Topic/Lesson
UNIT TWELVE
DATA ANALYSIS AND PROBABILITY

1. Measures of Central Tendency
2. Organizing and Displaying Data
3. Introduction to Probability
4. Theoretical and Experimental Probability

Mission and Expectations

1. *Critical Thinking Skills* 2. *Problem Solving Skills* 3. *Test Taking Skills*

Objectives

1. To work with measures of central tendency and to decide the appropriate measure for a given data set.
2. To organize data in tables and graphs.
3. To choose a table or graph to display data.
4. To determine the theoretical and experimental probabilities of events.

Essential Question

How do you determine which measure of central tendency best represents a given set of data?

Teacher Resources

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1. Textbook Lessons and Exercises
2. Teacher-Made Worksheets
3. Teacher-Made Assessments

Media Resources

1. Teacher-Made PowerPoint Presentations
2. Bittinger Test Generator
3. Electronic Worksheets in TeacherShared Folder
4. Teacher-Made Web-Based Assessments

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:

Week 36

Performance Standards

The students will:
10.D.1 Select, create, and interpret an appropriate graphical representation (e.g., scatter plot, table, stem-and-leaf plots, box-and-whisker plots, circle graph, line graph, and line plot) for a set of data and use appropriate statistics (e.g., mean, median, range, and mode) to communicate information about the data. Use these notions to compare different sets of data.

Unit/Topic/Lesson
UNIT TWELVE
DATA ANALYSIS AND PROBABILITY

1. Counting the Elements of a Set
2. The Fundamental Counting Principle
3. Permutations and Combinations

Mission and Expectations

1. *Critical Thinking Skills* 2. *Problem Solving Skills* 3. *Test Taking Skills*

Objectives

1. To find the union and intersection of sets.
2. To count elements of a set.
3. To use tree diagrams and the Fundamental Counting Principle to count the number of choices that can be made from sets.
4. To solve problems involving permutations and combinations.

Essential Question

How do you determine whether a situation represents a permutation or a combination?

Teacher Resources

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4. Textbook Lessons and Exercises
5. Teacher-Made Worksheets
6. Teacher-Made Assessments
- 1.

Media Resources

1. Teacher-Made PowerPoint Presentations
2. Bittinger Test Generator
3. Electronic Worksheets in TeacherShared Folder
4. Teacher-Made Web-Based Assessments

Evaluation/Activities

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 Data Analysis.

Completion date:
Completed by:
Comments:

