

College Algebra

Course Lesson Plan: 36 weeks

Welcome to Thinkwell's Homeschool College Algebra! We're thrilled that you've decided to make us part of your homeschool curriculum. This lesson plan is meant to be a guide for you and your homeschool student. Each day, you'll tackle a different topic and all the materials associated with that topic, such as video lectures, exercises, and interactivities. If you follow our day-by-day schedule, you'll complete the full curriculum for the course in 36 weeks. Feel free to modify and amend the plan as it best works for you. And, as always, please [let us know](#) what we can do to help get you up and running with Thinkwell's College Algebra!

Week 1	
Chapter 1: Prerequisites	
Assignments	Notes
<u>Week 1, Day 1</u>	
<input type="checkbox"/> 1.1.1 An Introduction to Algebra <input type="checkbox"/> 1.1.2 The Top Ten List of Mistakes	
<u>Week 1, Day 2</u>	
<input type="checkbox"/> 1.2.1 Concepts of Inequality <input type="checkbox"/> 1.2.2 Inequalities and Interval Notation	
<u>Week 1, Day 3</u>	
<input type="checkbox"/> 1.3.1 Properties of Absolute Value <input type="checkbox"/> 1.3.2 Evaluating Absolute Value Expressions	
<u>Week 1, Day 4</u>	
<input type="checkbox"/> 1.4.1 An Introduction to Exponents	
<u>Week 1, Day 5</u>	
<input type="checkbox"/> 1.4.2 Evaluating Exponential Expressions <input type="checkbox"/> 1.4.3 Applying the Rules of Exponents	

Week 2	
Chapter 1: Prerequisites	
Assignments	Notes
<u>Week 2, Day 1</u>	
<input type="checkbox"/> 1.4.4 Evaluating Expressions with Negative Exponents <input type="checkbox"/> 1.5.1 Converting between Decimal and Scientific Notation	
<u>Week 2, Day 2</u>	
<input type="checkbox"/> 1.5.2 Converting Rational Exponents and Radicals <input type="checkbox"/> 1.6.1 Simplifying Radical Expressions	
<u>Week 2, Day 3</u>	
<input type="checkbox"/> 1.6.2 Simplifying Radical Expressions with Variables <input type="checkbox"/> 1.6.3 Rationalizing Denominators	
<u>Week 2, Day 4</u>	
<input type="checkbox"/> 1.7.1 Determining Components and Degree <input type="checkbox"/> 1.7.2 Adding, Subtracting, and Multiplying Polynomials	

Week 2, Day 5 <input type="checkbox"/> 1.7.3 Multiplying Big Products	
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Week 3 Chapter 1: Prerequisites	
Assignments	Notes
Week 3, Day 1 <input type="checkbox"/> 1.7.4 Using Special Products <input type="checkbox"/> 1.8.1 Factoring Using the Greatest Common Factor	
Week 3, Day 2 <input type="checkbox"/> 1.8.2 Factoring by Grouping <input type="checkbox"/> 1.8.3 Factoring Trinomials Completely	
Week 3, Day 3 <input type="checkbox"/> 1.9.1 Factoring Perfect Square Trinomials <input type="checkbox"/> 1.9.2 Factoring the Difference of Two Squares	
Week 3, Day 4 <input type="checkbox"/> 1.9.3 Factoring Sums and Differences of Cubes <input type="checkbox"/> 1.9.4 Factoring by Any Method	
Week 3, Day 5 <input type="checkbox"/> 1.10.1 Rational Expressions and Domain <input type="checkbox"/> 1.10.2 Working with Fractions	

Week 4 Chapter 1: Prerequisites	
Assignments	Notes
Week 4, Day 1 <input type="checkbox"/> 1.10.3 Writing Rational Expressions in Lowest Terms <input type="checkbox"/> 1.11.1 Multiplying and Dividing Rational Expressions	
Week 4, Day 2 <input type="checkbox"/> 1.11.2 Adding and Subtracting Rational Expressions <input type="checkbox"/> 1.11.3 Rewriting Complex Fractions	
Week 4, Day 3 <input type="checkbox"/> 1.12.1 Introducing and Writing Complex Numbers <input type="checkbox"/> 1.12.2 Rewriting Powers of i	
Week 4, Day 4 <input type="checkbox"/> 1.12.3 Adding and Subtracting Complex Numbers	
Week 4, Day 5 <input type="checkbox"/> 1.12.4 Multiplying Complex Numbers <input type="checkbox"/> 1.12.5 Dividing Complex Numbers	

Week 5 Chapter 1 Test Chapter 2: Equations and Inequalities	
Assignments	Notes
<u>Week 5, Day 1</u> <input type="checkbox"/> Chapter 1 Practice Test	
<u>Week 5, Day 2</u> <input type="checkbox"/> Chapter 1 Test	Chapter 1 Test Score: _____
<u>Week 5, Day 3</u> <input type="checkbox"/> 2.1.1 An Introduction to Solving Equations <input type="checkbox"/> 2.1.2 Solving a Linear Equation	
<u>Week 5, Day 4</u> <input type="checkbox"/> 2.1.3 Solving a Linear Equation with Rationals <input type="checkbox"/> 2.1.4 Solving a Linear Equation That Has Restrictions	
<u>Week 5, Day 5</u> <input type="checkbox"/> 2.2.1 An Introduction to Solving Word Problems <input type="checkbox"/> 2.2.2 Solving for Perimeter	

Week 6 Chapter 2: Equations and Inequalities	
Assignments	Notes
<u>Week 6, Day 1</u> <input type="checkbox"/> 2.2.3 Solving a Linear Geometry Problem <input type="checkbox"/> 2.2.4 Solving for Consecutive Numbers	
<u>Week 6, Day 2</u> <input type="checkbox"/> 2.2.5 Solving to Find the Average <input type="checkbox"/> 2.3.1 Solving for Constant Velocity	
<u>Week 6, Day 3</u> <input type="checkbox"/> 2.3.2 Solving a Problem about Work <input type="checkbox"/> 2.3.3 Solving a Mixture Problem	
<u>Week 6, Day 4</u> <input type="checkbox"/> 2.3.4 Solving an Investment Problem <input type="checkbox"/> 2.3.5 Solving Business Problems	
<u>Week 6, Day 5</u> <input type="checkbox"/> 2.5.1 Proving the Quadratic Formula <input type="checkbox"/> 2.5.2 Using the Quadratic Formula	

Week 7 Chapter 2: Equations and Inequalities	
Assignments	Notes
<u>Week 7, Day 1</u> <input type="checkbox"/> 2.5.3 Predicting the Type of Solutions Using the Discriminant <input type="checkbox"/> 2.6.1 Solving for a Squared Variable	

<u>Week 7, Day 2</u> <input type="checkbox"/> 2.6.2 Finding Real Number Restrictions <input type="checkbox"/> 2.6.3 Solving Fancy Quadratics	
<u>Week 7, Day 3</u> <input type="checkbox"/> 2.7.1 An Introduction to Word Problems with Quadratics <input type="checkbox"/> 2.7.2 Solving a Quadratic Geometry Problem	
<u>Week 7, Day 4</u> <input type="checkbox"/> 2.7.3 Solving with the Pythagorean Theorem <input type="checkbox"/> 2.8.1 Solving a Motion Problem	
<u>Week 7, Day 5</u> <input type="checkbox"/> 2.8.2 Solving a Projectile Problem <input type="checkbox"/> 2.8.3 Solving Other Problems	

Week 8 Chapter 2: Equations and Inequalities	
Assignments	Notes
<u>Week 8, Day 1</u> <input type="checkbox"/> 2.9.1 Determining Extraneous Roots <input type="checkbox"/> 2.9.2 Solving an Equation Containing a Radical	
<u>Week 8, Day 2</u> <input type="checkbox"/> 2.9.3 Solving an Equation with Two Radicals <input type="checkbox"/> 2.9.4 Solving an Equation with Rational Exponents	
<u>Week 8, Day 3</u> <input type="checkbox"/> 2.10.1 An Introduction to Variation	
<u>Week 8, Day 4</u> <input type="checkbox"/> 2.10.2 Direct Proportion <input type="checkbox"/> 2.10.3 Inverse Proportion	
<u>Week 8, Day 5</u> <input type="checkbox"/> 2.11.1 An Introduction to Solving Inequalities <input type="checkbox"/> 2.11.2 Solving Compound Inequalities	

Week 9 Chapter 2: Equations and Inequalities	
Assignments	Notes
<u>Week 9, Day 1</u> <input type="checkbox"/> 2.11.3 More on Compound Inequalities <input type="checkbox"/> 2.11.4 Solving Word Problems Involving Inequalities	
<u>Week 9, Day 2</u> <input type="checkbox"/> 2.12.1 Solving Quadratic Inequalities <input type="checkbox"/> 2.12.2 Solving Quadratic Inequalities: Another Example	
<u>Week 9, Day 3</u> <input type="checkbox"/> 2.13.1 Solving Rational Inequalities <input type="checkbox"/> 2.13.2 Solving Rational Inequalities: Another Example	

<u>Week 9, Day 4</u> <input type="checkbox"/> 2.13.3 Determining the Domains of Expressions with Radicals <input type="checkbox"/> 2.14.1 Matching Number Lines with Absolute Values	
<u>Week 9, Day 5</u> <input type="checkbox"/> 2.14.2 Solving Absolute Value Equations	

Week 10 Chapter 2: Equations and Inequalities Chapter 2 Test	
Assignments	Notes
<u>Week 10, Day 1</u> <input type="checkbox"/> 2.14.3 Solving Equations with Two Absolute Value Expressions	
<u>Week 10, Day 2</u> <input type="checkbox"/> 2.14.4 Solving Absolute Value Inequalities	
<u>Week 10, Day 3</u> <input type="checkbox"/> 2.14.5 Solving Absolute Value Inequalities: More Examples	
<u>Week 10, Day 4</u> <input type="checkbox"/> Chapter 2 Practice Test	
<u>Week 10, Day 5</u> <input type="checkbox"/> Chapter 2 Test	Chapter 2 Test Score: _____

Week 11 Chapter 3: Relations and Functions	
Assignments	Notes
<u>Week 11, Day 1</u> <input type="checkbox"/> 3.1.1 Using the Cartesian System <input type="checkbox"/> 3.1.2 Thinking Visually	
<u>Week 11, Day 2</u> <input type="checkbox"/> 3.2.1 Finding the Distance between Two Points <input type="checkbox"/> 3.2.2 Finding the Second Endpoint of a Segment	
<u>Week 11, Day 3</u> <input type="checkbox"/> 3.3.1 Collinearity and Distance <input type="checkbox"/> 3.3.2 Triangles	
<u>Week 11, Day 4</u> <input type="checkbox"/> 3.4.1 Finding the Center-Radius Form of the Equation of a Circle <input type="checkbox"/> 3.4.2 Finding the Center and Radius of a Circle	
<u>Week 11, Day 5</u> <input type="checkbox"/> 3.4.3 Decoding the Circle Formula <input type="checkbox"/> 3.4.4 Solving Word Problems Involving Circles	

Week 12 Chapter 3: Relations and Functions	
Assignments	Notes
<u>Week 12, Day 1</u> <input type="checkbox"/> 3.5.1 Graphing Equations by Locating Points <input type="checkbox"/> 3.5.2 Finding the x- and y-Intercepts of an Equation	
<u>Week 12, Day 2</u> <input type="checkbox"/> 3.6.1 Functions and the Vertical Line Test <input type="checkbox"/> 3.6.2 Identifying Functions	
<u>Week 12, Day 3</u> <input type="checkbox"/> 3.6.3 Function Notation and Finding Function Values <input type="checkbox"/> 3.7.1 Determining Intervals Over Which a Function Is Increasing	
<u>Week 12, Day 4</u> <input type="checkbox"/> 3.7.2 Evaluating Piecewise-Defined Functions for Given Values <input type="checkbox"/> 3.7.3 Solving Word Problems Involving Functions	
<u>Week 12, Day 5</u> <input type="checkbox"/> 3.8.1 Finding the Domain and Range of a Function <input type="checkbox"/> 3.8.2 Domain and Range: One Explicit Example	

Week 13 Chapter 3: Relations and Functions	
Assignments	Notes
<u>Week 13, Day 1</u> <input type="checkbox"/> 3.8.3 Satisfying the Domain of a Function <input type="checkbox"/> 3.9.1 An Introduction to Slope	
<u>Week 13, Day 2</u> <input type="checkbox"/> 3.9.2 Finding the Slope of a Line Given Two Points <input type="checkbox"/> 3.9.3 Interpreting Slope from a Graph	
<u>Week 13, Day 3</u> <input type="checkbox"/> 3.9.4 Graphing a Line Using Point and Slope <input type="checkbox"/> 3.10.1 Writing an Equation in Slope-Intercept Form	
<u>Week 13, Day 4</u> <input type="checkbox"/> 3.10.2 Writing an Equation Given Two Points <input type="checkbox"/> 3.10.3 Writing an Equation in Point-Slope Form	
<u>Week 13, Day 5</u> <input type="checkbox"/> 3.10.4 Matching a Slope-Intercept Equation with Its Graph <input type="checkbox"/> 3.10.5 Slope with Parallel and Perpendicular Lines	

Week 14 Chapter 3: Relations and Functions	
Assignments	Notes
<u>Week 14, Day 1</u> <input type="checkbox"/> 3.11.1 Constructing Linear Function Models of a Set of Data <input type="checkbox"/> 3.11.2 Linear Cost and Revenue Functions	

<u>Week 14, Day 2</u> <input type="checkbox"/> 3.12.1 Graphing Some Important Functions <input type="checkbox"/> 3.12.2 Graphing Piecewise-Defined Functions	
<u>Week 14, Day 3</u> <input type="checkbox"/> 3.12.3 Matching Equations with Their Graphs <input type="checkbox"/> 3.13.1 The Greatest Integer Function	
<u>Week 14, Day 4</u> <input type="checkbox"/> 3.13.2 Graphing the Greatest Integer Function <input type="checkbox"/> 3.14.1 Using Operations on Functions	
<u>Week 14, Day 5</u> <input type="checkbox"/> 3.14.2 Composite Functions <input type="checkbox"/> 3.14.3 Components of Composite Functions	

Week 15 Chapter 3: Relations and Functions	
Assignments	Notes
<u>Week 15, Day 1</u> <input type="checkbox"/> 3.14.4 Finding Functions That Form a Given Composite <input type="checkbox"/> 3.14.5 Finding the Difference Quotient of a Function	
<u>Week 15, Day 2</u> <input type="checkbox"/> 3.15.1 Deconstructing the Graph of a Quadratic Function <input type="checkbox"/> 3.15.2 Nice-Looking Parabolas	
<u>Week 15, Day 3</u> <input type="checkbox"/> 3.15.3 Using Discriminants to Graph Parabolas <input type="checkbox"/> 3.15.4 Maximum Height in the Real World	
<u>Week 15, Day 4</u> <input type="checkbox"/> 3.16.1 Finding the Vertex by Completing the Square <input type="checkbox"/> 3.16.2 Using the Vertex to Write the Quadratic Equation	
<u>Week 15, Day 5</u> <input type="checkbox"/> 3.16.3 Finding the Maximum or Minimum of a Quadratic <input type="checkbox"/> 3.16.4 Graphing Parabolas	

Week 16 Chapter 3: Relations and Functions	
Assignments	Notes
<u>Week 16, Day 1</u> <input type="checkbox"/> 3.17.1 Shifting Curves along Axes <input type="checkbox"/> 3.17.2 Shifting or Translating Curves along Axes	
<u>Week 16, Day 2</u> <input type="checkbox"/> 3.17.3 Stretching a Graph <input type="checkbox"/> 3.17.4 Graphing Quadratics Using Patterns	
<u>Week 16, Day 3</u> <input type="checkbox"/> 3.18.1 Determining Symmetry <input type="checkbox"/> 3.18.2 Reflections <input type="checkbox"/> 3.18.3 Reflecting Specific Functions	

Week 16, Day 4 <input type="checkbox"/> Chapter 3 Practice Test	
Week 16, Day 5 <input type="checkbox"/> Chapter 3 Test	Chapter 3 Test Score: _____

Week 17 Chapter 4: Polynomial and Rational Functions	
Assignments	Notes
Week 17, Day 1 <input type="checkbox"/> 4.1.1 Using Long Division with Polynomials <input type="checkbox"/> 4.1.2 Long Division: Another Example	
Week 17, Day 2 <input type="checkbox"/> 4.2.1 Using Synthetic Division with Polynomials <input type="checkbox"/> 4.2.2 More Synthetic Division <input type="checkbox"/> 4.3.1 The Remainder Theorem	
Week 17, Day 3 <input type="checkbox"/> 4.3.2 More on the Remainder Theorem <input type="checkbox"/> 4.4.1 The Factor Theorem and Its Uses	
Week 17, Day 4 <input type="checkbox"/> 4.4.2 Factoring a Polynomial Given a Zero <input type="checkbox"/> 4.5.1 Presenting the Rational Zero Theorem	
Week 17, Day 5 <input type="checkbox"/> 4.5.2 Considering Possible Solutions <input type="checkbox"/> 4.6.1 Finding Polynomials Given Zeros, Degree, and One Point	

Week 18 Chapter 4: Polynomial and Rational Functions	
Assignments	Notes
Week 18, Day 1 <input type="checkbox"/> 4.6.2 Finding all Zeros and Multiplicities of a Polynomial <input type="checkbox"/> 4.6.3 Finding the Real Zeros for a Polynomial	
Week 18, Day 2 <input type="checkbox"/> 4.6.4 Using Descartes' Rule of Signs <input type="checkbox"/> 4.6.5 Finding the Zeros of a Polynomial from Start to Finish	
Week 18, Day 3 <input type="checkbox"/> 4.7.1 Matching Graphs to Polynomial Functions <input type="checkbox"/> 4.7.2 Sketching the Graphs of Basic Polynomial Functions	
Week 18, Day 4 <input type="checkbox"/> 4.8.1 Understanding Rational Functions <input type="checkbox"/> 4.8.2 Basic Rational Functions	
Week 18, Day 5 <input type="checkbox"/> 4.9.1 Vertical Asymptotes <input type="checkbox"/> 4.9.2 Horizontal Asymptotes	

Week 19 Chapter 4: Polynomial and Rational Functions Chapter 4 Test Midterm Exam	
Assignments	Notes
<u>Week 19, Day 1</u> <input type="checkbox"/> 4.9.3 Graphing Rational Functions <input type="checkbox"/> 4.9.4 Graphing Rational Functions: More Examples	
<u>Week 19, Day 2</u> <input type="checkbox"/> Chapter 4 Practice Test	
<u>Week 19, Day 3</u> <input type="checkbox"/> Chapter 4 Test	
<u>Week 19, Day 4</u> <input type="checkbox"/> Practice Midterm Exam	
<u>Week 19, Day 5</u> <input type="checkbox"/> Midterm Exam	Midterm Exam Score: _____

Week 20 Chapter 5: Exponential and Logarithmic Functions	
Assignments	Notes
<u>Week 20, Day 1</u> <input type="checkbox"/> 5.1.1 Understanding Inverse Functions	
<u>Week 20, Day 2</u> <input type="checkbox"/> 5.1.2 The Horizontal Line Test <input type="checkbox"/> 5.1.3 Are Two Functions Inverses of Each Other?	
<u>Week 20, Day 3</u> <input type="checkbox"/> 5.1.4 Graphing the Inverse	
<u>Week 20, Day 4</u> <input type="checkbox"/> 5.2.1 Finding the Inverse of a Function	
<u>Week 20, Day 5</u> <input type="checkbox"/> 5.2.2 Finding the Inverse of a Function with Higher Powers	

Week 21 Chapter 5: Exponential and Logarithmic Functions	
Assignments	Notes
<u>Week 21, Day 1</u> <input type="checkbox"/> 5.3.1 An Introduction to Exponential Functions <input type="checkbox"/> 5.3.2 Graphing Exponential Functions: Useful Patterns	
<u>Week 21, Day 2</u> <input type="checkbox"/> 5.3.3 Graphing Exponential Functions: More Examples	
<u>Week 21, Day 3</u> <input type="checkbox"/> 5.4.1 Using Properties of Exponents to Solve Exponential Equations	

<u>Week 21, Day 4</u> <input type="checkbox"/> 5.4.2 Finding Present Value and Future Value	
<u>Week 21, Day 5</u> <input type="checkbox"/> 5.4.3 Finding an Interest Rate to Match Given Goals	

Week 22 Chapter 5: Exponential and Logarithmic Functions	
Assignments	Notes
<u>Week 22, Day 1</u> <input type="checkbox"/> 5.5.1 e	
<u>Week 22, Day 2</u> <input type="checkbox"/> 5.5.2 Applying Exponential Functions	
<u>Week 22, Day 3</u> <input type="checkbox"/> 5.6.1 An Introduction to Logarithmic Functions <input type="checkbox"/> 5.6.2 Converting between Exponential and Logarithmic Functions	
<u>Week 22, Day 4</u> <input type="checkbox"/> 5.7.1 Finding the Value of a Logarithmic Function	
<u>Week 22, Day 5</u> <input type="checkbox"/> 5.7.2 Solving for x in Logarithmic Equations	

Week 23 Chapter 5: Exponential and Logarithmic Functions	
Assignments	Notes
<u>Week 23, Day 1</u> <input type="checkbox"/> 5.7.3 Graphing Logarithmic Functions <input type="checkbox"/> 5.7.4 Matching Logarithmic Functions with Their Graphs	
<u>Week 23, Day 2</u> <input type="checkbox"/> 5.8.1 Properties of Logarithms	
<u>Week 23, Day 3</u> <input type="checkbox"/> 5.8.2 Expanding a Logarithmic Expression Using Properties	
<u>Week 23, Day 4</u> <input type="checkbox"/> 5.8.3 Combining Logarithmic Expressions	
<u>Week 23, Day 5</u> <input type="checkbox"/> 5.9.1 Evaluating Logarithmic Functions Using a Calculator <input type="checkbox"/> 5.9.2 Using the Change of Base Formula	

Week 24 Chapter 5: Exponential and Logarithmic Functions	
Assignments	Notes
<u>Week 24, Day 1</u> <input type="checkbox"/> 5.10.1 The Richter Scale <input type="checkbox"/> 5.10.2 The Distance Modulus Formula	

<u>Week 24, Day 2</u> <input type="checkbox"/> 5.11.1 Solving Exponential Equations	
<u>Week 24, Day 3</u> <input type="checkbox"/> 5.11.2 Solving Logarithmic Equations	
<u>Week 24, Day 4</u> <input type="checkbox"/> 5.11.3 Solving Equations with Logarithmic Exponents	
<u>Week 24, Day 5</u> <input type="checkbox"/> 5.12.1 Compound Interest <input type="checkbox"/> 5.12.2 Predicting Change	

Week 25 Chapter 5: Exponential and Logarithmic Functions Chapter 5 Test	
Assignments	Notes
<u>Week 25, Day 1</u> <input type="checkbox"/> 5.13.1 An Introduction to Exponential Growth and Decay <input type="checkbox"/> 5.13.2 Half-Life	
<u>Week 25, Day 2</u> <input type="checkbox"/> 5.13.3 Newton's Law of Cooling	
<u>Week 25, Day 3</u> <input type="checkbox"/> 5.13.4 Continuously Compounded Interest	
<u>Week 25, Day 4</u> <input type="checkbox"/> Chapter 5 Practice Test	
<u>Week 25, Day 5</u> <input type="checkbox"/> Chapter 5 Test	Chapter 5 Test Score: _____

Week 26 Chapter 6: Systems of Equations	
Assignments	Notes
<u>Week 26, Day 1</u> <input type="checkbox"/> 6.1.1 An Introduction to Linear Systems <input type="checkbox"/> 6.1.2 Solving Systems with Substitution	
<u>Week 26, Day 2</u> <input type="checkbox"/> 6.1.3 Solving Systems by Elimination	
<u>Week 26, Day 3</u> <input type="checkbox"/> 6.2.1 An Introduction to Linear Systems in Three Variables <input type="checkbox"/> 6.2.2 Solving Linear Systems in Three Variables	
<u>Week 26, Day 4</u> <input type="checkbox"/> 6.2.3 Solving Inconsistent Systems	
<u>Week 26, Day 5</u> <input type="checkbox"/> 6.2.4 Solving Dependent Systems <input type="checkbox"/> 6.2.5 Solving Systems with Two Equations	

Week 27 Chapter 6: Systems of Equations	
Assignments	Notes
<u>Week 27, Day 1</u> <input type="checkbox"/> 6.3.1 Investments	
<u>Week 27, Day 2</u> <input type="checkbox"/> 6.3.2 Solving with Partial Fractions	
<u>Week 27, Day 3</u> <input type="checkbox"/> 6.4.1 Solving Nonlinear Systems Using Elimination <input type="checkbox"/> 6.4.2 Solving Nonlinear Systems with Substitution	
<u>Week 27, Day 4</u> <input type="checkbox"/> 6.5.1 An Introduction to Matrices	
<u>Week 27, Day 5</u> <input type="checkbox"/> 6.5.2 The Arithmetic of Matrices	

Week 28 Chapter 6: Systems of Equations	
Assignments	Notes
<u>Week 28, Day 1</u> <input type="checkbox"/> 6.5.3 Multiplying Matrices by a Scalar	
<u>Week 28, Day 2</u> <input type="checkbox"/> 6.5.4 Multiplying Matrices	
<u>Week 28, Day 3</u> <input type="checkbox"/> 6.6.1 Using the Gauss-Jordan Method	
<u>Week 28, Day 4</u> <input type="checkbox"/> 6.6.2 Using Gauss-Jordan: Another Example	
<u>Week 28, Day 5</u> <input type="checkbox"/> 6.7.1 Evaluating 2x2 Determinants <input type="checkbox"/> 6.7.2 Evaluating $n \times n$ Determinants	

Week 29 Chapter 6: Systems of Equations	
Assignments	Notes
<u>Week 29, Day 1</u> <input type="checkbox"/> 6.7.3 Applying Determinants	
<u>Week 29, Day 2</u> <input type="checkbox"/> 6.7.4 Finding a Determinant using Expanding by Cofactors	
<u>Week 29, Day 3</u> <input type="checkbox"/> 6.8.1 Using Cramer's Rule <input type="checkbox"/> 6.8.2 Using Cramer's Rule in a 3x3 Matrix	
<u>Week 29, Day 4</u> <input type="checkbox"/> 6.9.1 An Introduction to Inverses	
<u>Week 29, Day 5</u> <input type="checkbox"/> 6.9.2 Inverses: 2x2 Matrices	

Week 30 Chapter 6: Systems of Equations	
Assignments	Notes
<u>Week 30, Day 1</u> <input type="checkbox"/> 6.9.3 Another Look at 2x2 Inverses	
<u>Week 30, Day 2</u> <input type="checkbox"/> 6.9.4 Inverses: 3x3 Matrices	
<u>Week 30, Day 3</u> <input type="checkbox"/> 6.9.5 Solving a System of Equations with Inverses	
<u>Week 30, Day 4</u> <input type="checkbox"/> 6.10.1 An Introduction to Graphing Linear Inequalities	
<u>Week 30, Day 5</u> <input type="checkbox"/> 6.10.2 Graphing Linear and Nonlinear Inequalities	

Week 31 Chapter 6: Systems of Equations Chapter 6 Test	
Assignments	Notes
<u>Week 31, Day 1</u> <input type="checkbox"/> 6.10.3 Graphing the Solution Set of a System of Inequalities	
<u>Week 31, Day 2</u> <input type="checkbox"/> 6.11.1 Solving for Maxima-Minima	
<u>Week 31, Day 3</u> <input type="checkbox"/> 6.11.2 Applying Linear Programming	
<u>Week 31, Day 4</u> <input type="checkbox"/> Chapter 6 Practice Test	
<u>Week 31, Day 5</u> <input type="checkbox"/> Chapter 6 Test	Chapter 6 Test Score: _____

Week 32 Chapter 7: Conic Sections	
Assignments	Notes
<u>Week 32, Day 1</u> <input type="checkbox"/> 7.1.1 An Introduction to Conic Sections	
<u>Week 32, Day 2</u> <input type="checkbox"/> 7.1.2 An Introduction to Parabolas	
<u>Week 32, Day 3</u> <input type="checkbox"/> 7.1.3 Determining Information about a Parabola from Its Equation <input type="checkbox"/> 7.1.4 Writing an Equation for a Parabola	
<u>Week 32, Day 4</u> <input type="checkbox"/> 7.2.1 An Introduction to Ellipses	
<u>Week 32, Day 5</u> <input type="checkbox"/> 7.2.2 Finding the Equation for an Ellipse <input type="checkbox"/> 7.2.3 Applying Ellipses: Satellites	

Week 33 Chapter 7: Conic Sections Chapter 7 Test	
Assignments	Notes
<u>Week 33, Day 1</u> <input type="checkbox"/> 7.3.1 An Introduction to Hyperbolas <input type="checkbox"/> 7.3.2 Finding the Equation for a Hyperbola	
<u>Week 33, Day 2</u> <input type="checkbox"/> 7.3.3 Applying Hyperbolas: Navigation	
<u>Week 33, Day 3</u> <input type="checkbox"/> 7.4.1 Identifying a Conic <input type="checkbox"/> 7.4.2 Name That Conic	
<u>Week 33, Day 4</u> <input type="checkbox"/> Chapter 7 Practice Test	
<u>Week 33, Day 5</u> <input type="checkbox"/> Chapter 7 Test	Chapter 7 Test Score: _____

Week 34 Chapter 8: Further Topics in Algebra	
Assignments	Notes
<u>Week 34, Day 1</u> <input type="checkbox"/> 8.1.1 Using the Binomial Theorem <input type="checkbox"/> 8.1.2 Binomial Coefficients	
<u>Week 34, Day 2</u> <input type="checkbox"/> 8.1.3 Finding a Term of a Binomial Expansion	
<u>Week 34, Day 3</u> <input type="checkbox"/> 8.2.1 Understanding Sequence Problems <input type="checkbox"/> 8.2.2 Solving Problems Involving Arithmetic Sequences	
<u>Week 34, Day 4</u> <input type="checkbox"/> 8.2.3 Solving Problems Involving Geometric Sequences	
<u>Week 34, Day 5</u> <input type="checkbox"/> 8.3.1 Proving Formulas Using Mathematical Induction <input type="checkbox"/> 8.3.2 Examples of Induction	

Week 35 Chapter 8: Further Topics in Algebra Chapter 8 Test	
Assignments	Notes
<u>Week 35, Day 1</u> <input type="checkbox"/> 8.4.1 Solving Problems Involving Permutations <input type="checkbox"/> 8.4.2 Solving Problems Involving Combinations	
<u>Week 35, Day 2</u> <input type="checkbox"/> 8.4.3 Independent Events	

<u>Week 35, Day 3</u> <input type="checkbox"/> 8.4.4 Inclusive and Exclusive Events	
<u>Week 35, Day 4</u> <input type="checkbox"/> Chapter 8 Practice Test	
<u>Week 35, Day 5</u> <input type="checkbox"/> Chapter 8 Test	Chapter 8 Test Score: _____

Week 36 Chapter 9: Conclusion Final Exam	
Assignments	Notes
<u>Week 36, Day 1</u> <input type="checkbox"/> 9.1.1 Final Close	
<u>Week 36, Day 2</u> <input type="checkbox"/> Study for Final Exam	
<u>Week 36, Day 3</u> <input type="checkbox"/> Study for Final Exam	
<u>Week 36, Day 4</u> <input type="checkbox"/> Practice Final Exam	
<u>Week 36, Day 5</u> <input type="checkbox"/> Final Exam	Final Exam Score: _____