

## Beginning Algebra

### Course Lesson Plan: 37 weeks

Welcome to Thinkwell's Homeschool Beginning 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, notes, and sample problems. If you follow our day-by-day schedule, you'll complete the full curriculum for the course in 37 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 Beginning Algebra!

<b>Week 1</b>	
Chapter 1: Pre-Algebra Review	
Assignments	Notes
<b><u>Week 1, Day 1</u></b>	
<ul style="list-style-type: none"> <li>1.1.1 Beginning Algebra</li> </ul>	
<b><u>Week 1, Day 2</u></b>	
<ul style="list-style-type: none"> <li>1.1.2 Review of Arithmetic: Addition and Subtraction</li> </ul>	
<b><u>Week 1, Day 3</u></b>	
<ul style="list-style-type: none"> <li>1.1.3 Review of Arithmetic: Multiplication and Division</li> <li>1.1.4 Top Ten List of Mistakes</li> </ul>	
<b><u>Week 1, Day 4</u></b>	
<ul style="list-style-type: none"> <li>1.2.1 Factors and Primes</li> </ul>	
<b><u>Week 1, Day 5</u></b>	
<ul style="list-style-type: none"> <li>1.2.2 Greatest Common Factor and Least Common Multiples</li> </ul>	

<b>Week 2</b>	
Chapter 1: Pre-Algebra Review	
Assignments	Notes
<b><u>Week 2, Day 1</u></b>	
<ul style="list-style-type: none"> <li>1.2.3 Introduction to Fractions</li> </ul>	
<b><u>Week 2, Day 2</u></b>	
<ul style="list-style-type: none"> <li>1.2.4 Multiplying Fractions</li> </ul>	
<b><u>Week 2, Day 3</u></b>	
<ul style="list-style-type: none"> <li>1.2.5 Dividing Fractions</li> </ul>	
<b><u>Week 2, Day 4</u></b>	
<ul style="list-style-type: none"> <li>1.2.6 Adding Fractions</li> </ul>	
<b><u>Week 2, Day 5</u></b>	
<ul style="list-style-type: none"> <li>1.2.7 Subtracting Fractions</li> <li>1.2.8 Mixed Numbers</li> </ul>	

<b>Week 3</b> Chapter 1: Pre-Algebra Review	
Assignments	Notes
<b><u>Week 3, Day 1</u></b> <ul style="list-style-type: none"> <li>1.2.9 Adding and Subtracting Mixed Numbers</li> </ul>	
<b><u>Week 3, Day 2</u></b> <ul style="list-style-type: none"> <li>1.2.10 Multiplying and Dividing Mixed Numbers</li> </ul>	
<b><u>Week 3, Day 3</u></b> <ul style="list-style-type: none"> <li>1.3.1 Decimal Numbers</li> </ul>	
<b><u>Week 3, Day 4</u></b> <ul style="list-style-type: none"> <li>1.3.2 Multiplying and Dividing Decimals</li> </ul>	
<b><u>Week 3, Day 5</u></b> <ul style="list-style-type: none"> <li>1.3.3 Percent</li> <li>1.3.4 Conversion between Fractions, Percents, and Decimals</li> </ul>	

<b>Week 4</b> Chapter 1 Test Chapter 2: Foundations of Algebra	
Assignments	Notes
<b><u>Week 4, Day 1</u></b> <ul style="list-style-type: none"> <li>Chapter 1 Practice Test</li> </ul>	
<b><u>Week 4, Day 2</u></b> <ul style="list-style-type: none"> <li>Chapter 1 Test</li> </ul>	Chapter 1 Test Score: _____
<b><u>Week 4, Day 3</u></b> <ul style="list-style-type: none"> <li>2.1.1 Real Numbers</li> <li>2.1.2 Ordering Real Numbers</li> </ul>	
<b><u>Week 4, Day 4</u></b> <ul style="list-style-type: none"> <li>2.1.3 Arithmetic on the Number Line</li> </ul>	
<b><u>Week 4, Day 5</u></b> <ul style="list-style-type: none"> <li>2.1.4 Multiplying Real Numbers</li> </ul>	

<b>Week 5</b> Chapter 2: Foundations of Algebra	
Assignments	Notes
<b><u>Week 5, Day 1</u></b> <ul style="list-style-type: none"> <li>2.1.5 Multiplying a Negative by a Negative: The Why</li> </ul>	
<b><u>Week 5, Day 2</u></b> <ul style="list-style-type: none"> <li>2.1.6 Dividing Real Numbers</li> </ul>	
<b><u>Week 5, Day 3</u></b> <ul style="list-style-type: none"> <li>2.1.7 Order of Operations</li> </ul>	
<b><u>Week 5, Day 4</u></b> <ul style="list-style-type: none"> <li>2.1.8 Properties of Real Numbers</li> </ul>	
<b><u>Week 5, Day 5</u></b> <ul style="list-style-type: none"> <li>2.2.1 Introduction to Exponents</li> </ul>	

<ul style="list-style-type: none"> <li>2.2.2 Evaluating Exponential Expressions</li> </ul>	
<b>Week 6</b>	
Chapter 2: Foundations of Algebra	
Assignments	Notes
<b><u>Week 6, Day 1</u></b>	
<ul style="list-style-type: none"> <li>2.2.3 Applying the Rules of Exponents</li> </ul>	
<b><u>Week 6, Day 2</u></b>	
<ul style="list-style-type: none"> <li>2.2.4 Evaluating Expressions with Negative Exponents</li> </ul>	
<b><u>Week 6, Day 3</u></b>	
<ul style="list-style-type: none"> <li>2.2.5 Converting between Decimal and Scientific Notation</li> </ul>	
<b><u>Week 6, Day 4</u></b>	
<ul style="list-style-type: none"> <li>2.3.1 Algebraic Expressions</li> </ul>	
<b><u>Week 6, Day 5</u></b>	
<ul style="list-style-type: none"> <li>2.3.2 Introduction to Word Problems</li> </ul>	

<b>Week 7</b>	
Chapter 2 Test	
Assignments	Notes
<b><u>Week 7, Day 1</u></b>	
<ul style="list-style-type: none"> <li>Chapter 2 Practice Test</li> </ul>	
<b><u>Week 7, Day 2</u></b>	Chapter 2 Test Score: _____
<ul style="list-style-type: none"> <li>Chapter 2 Test</li> </ul>	
<b><u>Week 7, Day 3</u></b>	
<ul style="list-style-type: none"> <li>3.1.1 Equations</li> <li>3.1.2 Addition Property of Equality</li> </ul>	
<b><u>Week 7, Day 4</u></b>	
<ul style="list-style-type: none"> <li>3.1.3 Multiplication Property of Equality</li> </ul>	
<b><u>Week 7, Day 5</u></b>	
<ul style="list-style-type: none"> <li>3.2.1 Solving Equations with the Variable on One Side</li> </ul>	

<b>Week 8</b>	
Chapter 3: Solving Equations	
Assignments	Notes
<b><u>Week 8, Day 1</u></b>	
<ul style="list-style-type: none"> <li>3.2.2 Solving Equations with the Variable on Both Sides</li> </ul>	
<b><u>Week 8, Day 2</u></b>	
<ul style="list-style-type: none"> <li>3.2.3 Equality or Identity?</li> </ul>	
<b><u>Week 8, Day 3</u></b>	
<ul style="list-style-type: none"> <li>3.2.4 Equivalent Equations and Equations with No Solution</li> </ul>	
<b><u>Week 8, Day 4</u></b>	
<ul style="list-style-type: none"> <li>Chapter 3 Practice Test</li> </ul>	
<b><u>Week 8, Day 5</u></b>	Chapter 3 Test Score: _____
<ul style="list-style-type: none"> <li>Chapter 3 Test</li> </ul>	

<b>Week 9</b>	
Chapter 4: Linear Equations and Inequalities	
Assignments	Notes
<b><u>Week 9, Day 1</u></b>	
<ul style="list-style-type: none"> <li>4.1.1 Formulas</li> <li>4.1.2 Formulas: Temperature Conversion and Rate</li> </ul>	
<b><u>Week 9, Day 2</u></b>	
<ul style="list-style-type: none"> <li>4.1.3 Ratios and Proportions</li> </ul>	
<b><u>Week 9, Day 3</u></b>	
<ul style="list-style-type: none"> <li>4.1.4 More Ratios and Proportions</li> </ul>	
<b><u>Week 9, Day 4</u></b>	
<ul style="list-style-type: none"> <li>4.1.5 Finding a Perimeter</li> </ul>	
<b><u>Week 9, Day 5</u></b>	
<ul style="list-style-type: none"> <li>4.1.6 Solving a Linear Geometry Problem</li> <li>4.1.7 Solving for Constant Velocity</li> </ul>	

<b>Week 10</b>	
Chapter 4: Linear Equations and Inequalities	
Assignments	Notes
<b><u>Week 10, Day 1</u></b>	
<ul style="list-style-type: none"> <li>4.1.8 Solving a Business Problem</li> </ul>	
<b><u>Week 10, Day 2</u></b>	
<ul style="list-style-type: none"> <li>4.1.9 Solving a Mixture Problem</li> </ul>	
<b><u>Week 10, Day 3</u></b>	
<ul style="list-style-type: none"> <li>4.1.10 Solving an Investment Problem</li> </ul>	
<b><u>Week 10, Day 4</u></b>	
<ul style="list-style-type: none"> <li>4.1.11 Solving for Consecutive Numbers</li> <li>4.1.12 Finding an Average</li> </ul>	
<b><u>Week 10, Day 5</u></b>	
<ul style="list-style-type: none"> <li>4.2.1 Introduction to Inequalities</li> </ul>	

<b>Week 11</b>	
Chapter 4: Linear Equations and Inequalities	
Assignments	Notes
<b><u>Week 11, Day 1</u></b>	
<ul style="list-style-type: none"> <li>4.2.2 Solving Inequalities</li> <li>4.2.3 Solving Word Problems with Inequalities</li> </ul>	
<b><u>Week 11, Day 2</u></b>	
<ul style="list-style-type: none"> <li>4.3.1 Sets, Intersections, and Unions</li> </ul>	
<b><u>Week 11, Day 3</u></b>	
<ul style="list-style-type: none"> <li>4.3.2 Solving Compound Inequalities</li> </ul>	
<b><u>Week 11, Day 4</u></b>	

<ul style="list-style-type: none"> <li>4.3.3 More On Compound Inequalities</li> </ul>	
<b>Week 11, Day 5</b>	
<ul style="list-style-type: none"> <li>4.4.1 Matching Number Lines with Absolute Value</li> </ul>	
<b>Week 12</b>	
Chapter 4: Linear Equations and Inequalities	
Chapter 4 Test	
Assignments	Notes
<b>Week 12, Day 1</b>	
<ul style="list-style-type: none"> <li>4.4.2 Solving Absolute-Value Equations</li> <li>4.4.3 Solving Equations with Two Absolute-Value Expressions</li> </ul>	
<b>Week 12, Day 2</b>	
<ul style="list-style-type: none"> <li>4.5.1 Solving Absolute-Value Inequalities</li> </ul>	
<b>Week 12, Day 3</b>	
<ul style="list-style-type: none"> <li>4.5.2 Solving Absolute-Value Inequalities: More Examples</li> </ul>	
<b>Week 12, Day 4</b>	
<ul style="list-style-type: none"> <li>Chapter 4 Practice Test</li> </ul>	
<b>Week 12, Day 5</b>	Chapter 4 Test Score: _____
<ul style="list-style-type: none"> <li>Chapter 4 Test</li> </ul>	

<b>Week 13</b>	
Chapter 5: Polynomials	
Assignments	Notes
<b>Week 13, Day 1</b>	
<ul style="list-style-type: none"> <li>5.1.1 Determining Components and Degree</li> <li>5.1.2 Adding and Subtracting Polynomials</li> </ul>	
<b>Week 13, Day 2</b>	
<ul style="list-style-type: none"> <li>5.1.3 Multiplying Polynomials</li> </ul>	
<b>Week 13, Day 3</b>	
<ul style="list-style-type: none"> <li>5.2.1 The FOIL Method</li> </ul>	
<b>Week 13, Day 4</b>	
<ul style="list-style-type: none"> <li>5.2.2 Multiplying Big Products</li> </ul>	
<b>Week 13, Day 5</b>	
<ul style="list-style-type: none"> <li>5.2.3 Using Special Products</li> </ul>	

<b>Week 14</b>	
Chapter 5: Polynomials	
Assignments	Notes
<b>Week 14, Day 1</b>	
<ul style="list-style-type: none"> <li>5.3.1 Factoring Using the Greatest Common Factor</li> <li>5.3.2 Factoring by Grouping</li> </ul>	
<b>Week 14, Day 2</b>	
<ul style="list-style-type: none"> <li>5.3.3 Factoring Trinomials Completely</li> </ul>	
<b>Week 14, Day 3</b>	

<ul style="list-style-type: none"> <li>5.3.4 Factoring Trinomials: The Guess and Check Method</li> </ul>	
<b><u>Week 14, Day 4</u></b> <ul style="list-style-type: none"> <li>5.4.1 Factoring Perfect-Square Trinomials</li> </ul>	
<b><u>Week 14, Day 5</u></b> <ul style="list-style-type: none"> <li>5.4.2 Factoring the Difference of Two Squares</li> <li>5.4.3 Factoring the Sums and Differences of Cubes</li> </ul>	

<b>Week 15</b> Chapter 5: Polynomials	
Assignments	Notes
<b><u>Week 15, Day 1</u></b> <ul style="list-style-type: none"> <li>5.4.4 Factoring by Any Method</li> </ul>	
<b><u>Week 15, Day 2</u></b> <ul style="list-style-type: none"> <li>5.5.1 The Zero-Factor Property</li> </ul>	
<b><u>Week 15, Day 3</u></b> <ul style="list-style-type: none"> <li>5.6.1 Using Long Division with Polynomials</li> </ul>	
<b><u>Week 15, Day 4</u></b> <ul style="list-style-type: none"> <li>5.6.2 Long Division: Another Example</li> </ul>	
<b><u>Week 15, Day 5</u></b> <ul style="list-style-type: none"> <li>5.7.1 Using Synthetic Division with Polynomials</li> </ul>	

<b>Week 16</b> Chapter 5: Polynomials Chapter 5 Test	
Assignments	Notes
<b><u>Week 16, Day 1</u></b> <ul style="list-style-type: none"> <li>5.7.2 More Synthetic Division</li> </ul>	
<b><u>Week 16, Day 2</u></b> <ul style="list-style-type: none"> <li>5.8.1 Using the Remainder Theorem</li> </ul>	
<b><u>Week 16, Day 3</u></b> <ul style="list-style-type: none"> <li>5.8.2 More on the Remainder Theorem</li> </ul>	
<b><u>Week 16, Day 4</u></b> <ul style="list-style-type: none"> <li>Chapter 5 Practice Test</li> </ul>	
<b><u>Week 16, Day 5</u></b> <ul style="list-style-type: none"> <li>Chapter 5 Test</li> </ul>	Chapter 5 Test Score: _____

<b>Week 17</b> Midterm Exam Chapter 6: Rational Expressions	
Assignments	Notes
<b><u>Week 17, Day 1</u></b>	

<ul style="list-style-type: none"> <li>• Study for Midterm Exam</li> </ul>	
<b><u>Week 17, Day 2</u></b> <ul style="list-style-type: none"> <li>• Practice Midterm Exam</li> </ul>	
<b><u>Week 17, Day 3</u></b> <ul style="list-style-type: none"> <li>• Midterm Exam</li> </ul>	Midterm Exam Score: _____
<b><u>Week 17, Day 4</u></b> <ul style="list-style-type: none"> <li>• 6.1.1 An Introduction to Rational Expressions</li> </ul>	
<b><u>Week 17, Day 5</u></b> <ul style="list-style-type: none"> <li>• 6.1.2 Working with Fractions</li> <li>• 6.1.3 Writing Rational Expressions in Lowest Terms</li> </ul>	

<b>Week 18</b> Chapter 6: Rational Expressions	
Assignments	Notes
<b><u>Week 18, Day 1</u></b> <ul style="list-style-type: none"> <li>• 6.2.1 Multiplying and Dividing Rational Expressions</li> </ul>	
<b><u>Week 18, Day 2</u></b> <ul style="list-style-type: none"> <li>• 6.2.2 Adding and Subtracting Rational Expressions</li> </ul>	
<b><u>Week 18, Day 3</u></b> <ul style="list-style-type: none"> <li>• 6.2.3 Rewriting Complex Fractions</li> </ul>	
<b><u>Week 18, Day 4</u></b> <ul style="list-style-type: none"> <li>• 6.3.1 Solving a Linear Equation with Rationals</li> </ul>	
<b><u>Week 18, Day 5</u></b> <ul style="list-style-type: none"> <li>• 6.3.2 Solving a Linear Equation with Restrictions</li> </ul>	

<b>Week 19</b> Chapter 6: Rational Expressions	
Assignments	Notes
<b><u>Week 19, Day 1</u></b> <ul style="list-style-type: none"> <li>• 6.4.1 Solving Rational Inequalities</li> <li>• 6.4.2 Solving Rational Inequalities: Another Example</li> </ul>	
<b><u>Week 19, Day 2</u></b> <ul style="list-style-type: none"> <li>• 6.4.3 Determining Domain</li> </ul>	
<b><u>Week 19, Day 3</u></b> <ul style="list-style-type: none"> <li>• 6.5.1 Solving a Problem about Work</li> </ul>	
<b><u>Week 19, Day 4</u></b> <ul style="list-style-type: none"> <li>• 6.5.2 Resistors in Parallel</li> </ul>	
<b><u>Week 19, Day 5</u></b> <ul style="list-style-type: none"> <li>• 6.6.1 An Introduction to Variation</li> </ul>	

<b>Week 20</b> Chapter 6: Rational Expressions	
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Chapter 6 Test	
Assignments	Notes
<b><u>Week 20, Day 1</u></b>	
<ul style="list-style-type: none"> <li>6.6.2 Direct Proportion</li> </ul>	
<b><u>Week 20, Day 2</u></b>	
<ul style="list-style-type: none"> <li>6.6.3 Inverse Proportion</li> </ul>	
<b><u>Week 20, Day 3</u></b>	
<ul style="list-style-type: none"> <li>6.6.4 Joint and Combined Proportion</li> </ul>	
<b><u>Week 20, Day 4</u></b>	
<ul style="list-style-type: none"> <li>Chapter 6 Practice Test</li> </ul>	
<b><u>Week 20, Day 5</u></b>	Chapter 6 Test
<ul style="list-style-type: none"> <li>Chapter 6 Test</li> </ul>	Score: _____

<b>Week 21</b>	
Chapter 7: Relations and Functions	
Assignments	Notes
<b><u>Week 21, Day 1</u></b>	
<ul style="list-style-type: none"> <li>7.1.1 Using the Cartesian System</li> <li>7.1.2 Thinking Visually</li> </ul>	
<b><u>Week 21, Day 2</u></b>	
<ul style="list-style-type: none"> <li>7.2.1 Introducing Relations and Functions</li> </ul>	
<b><u>Week 21, Day 3</u></b>	
<ul style="list-style-type: none"> <li>7.2.2 Functions and the Vertical-Line Test</li> </ul>	
<b><u>Week 21, Day 4</u></b>	
<ul style="list-style-type: none"> <li>7.2.3 Function Notation and Values</li> </ul>	
<b><u>Week 21, Day 5</u></b>	
<ul style="list-style-type: none"> <li>7.3.1 Finding Domain and Range</li> <li>7.3.2 Domain and Range: An Explicit Example</li> </ul>	

<b>Week 22</b>	
Chapter 7: Relations and Functions	
Assignments	Notes
<b><u>Week 22, Day 1</u></b>	
<ul style="list-style-type: none"> <li>7.3.3 Satisfying the Domain of a Function</li> </ul>	
<b><u>Week 22, Day 2</u></b>	
<ul style="list-style-type: none"> <li>7.3.4 Graphing Important Functions</li> </ul>	
<b><u>Week 22, Day 3</u></b>	
<ul style="list-style-type: none"> <li>7.4.1 Operations on Functions</li> <li>7.4.2 Composite Functions</li> </ul>	
<b><u>Week 22, Day 4</u></b>	
<ul style="list-style-type: none"> <li>7.4.3 Components of Composite Functions</li> </ul>	
<b><u>Week 22, Day 5</u></b>	
<ul style="list-style-type: none"> <li>7.5.1 An Introduction to Slope</li> </ul>	



<b>Week 23</b> Chapter 7: Relations and Functions	
Assignments	Notes
<b><u>Week 23, Day 1</u></b> <ul style="list-style-type: none"> <li>7.5.2 Finding the Slope Given Two Points</li> <li>7.6.1 Using Intercepts to Graph Lines</li> </ul>	
<b><u>Week 23, Day 2</u></b> <ul style="list-style-type: none"> <li>7.6.2 Working with Specific Lines</li> </ul>	
<b><u>Week 23, Day 3</u></b> <ul style="list-style-type: none"> <li>7.6.3 Interpreting Slope from a Graph</li> </ul>	
<b><u>Week 23, Day 4</u></b> <ul style="list-style-type: none"> <li>7.6.4 Graphing with a Point and the Slope</li> </ul>	
<b><u>Week 23, Day 5</u></b> <ul style="list-style-type: none"> <li>7.7.1 Writing an Equation in Slope-Intercept Form</li> </ul>	

<b>Week 24</b> Chapter 7: Relations and Functions	
Assignments	Notes
<b><u>Week 24, Day 1</u></b> <ul style="list-style-type: none"> <li>7.7.2 Writing an Equation Given Two Points</li> <li>7.7.3 Writing an Equation in Point-Slope Form</li> </ul>	
<b><u>Week 24, Day 2</u></b> <ul style="list-style-type: none"> <li>7.7.4 Matching a Slope-Intercept Equation with Its Graph</li> </ul>	
<b><u>Week 24, Day 3</u></b> <ul style="list-style-type: none"> <li>7.7.5 Slope for Parallel and Perpendicular Lines</li> </ul>	
<b><u>Week 24, Day 4</u></b> <ul style="list-style-type: none"> <li>7.8.1 Constructing a Linear Model from a Set of Data</li> </ul>	
<b><u>Week 24, Day 5</u></b> <ul style="list-style-type: none"> <li>7.8.2 Scatterplots and Predictions</li> <li>7.8.3 Linear Cost and Revenue</li> </ul>	

<b>Week 25</b> Chapter 7 Test Chapter 8: Roots and Radicals	
Assignments	Notes
<b><u>Week 25, Day 1</u></b> <ul style="list-style-type: none"> <li>Chapter 7 Practice Test</li> </ul>	
<b><u>Week 25, Day 2</u></b> <ul style="list-style-type: none"> <li>Chapter 7 Test</li> </ul>	Chapter 7 Test Score: _____
<b><u>Week 25, Day 3</u></b> <ul style="list-style-type: none"> <li>8.1.1 Radical Notation and Properties of Roots</li> </ul>	

<b><u>Week 25, Day 4</u></b>	
<ul style="list-style-type: none"> <li>8.1.2 Variables and Negative Values under a Radical</li> </ul>	
<b><u>Week 25, Day 5</u></b>	
<ul style="list-style-type: none"> <li>8.1.3 Converting Rational Exponents and Radicals</li> </ul>	

<b>Week 26</b>	
Chapter 8: Roots and Radicals	
Assignments	Notes
<b><u>Week 26, Day 1</u></b>	
<ul style="list-style-type: none"> <li>8.2.1 Simplifying Radicals</li> <li>8.2.2 Simplifying Radical Expressions with Variables</li> </ul>	
<b><u>Week 26, Day 2</u></b>	
<ul style="list-style-type: none"> <li>8.3.1 Adding and Subtracting Radical Expressions</li> </ul>	
<b><u>Week 26, Day 3</u></b>	
<ul style="list-style-type: none"> <li>8.3.2 Rationalizing Denominators</li> </ul>	
<b><u>Week 26, Day 4</u></b>	
<ul style="list-style-type: none"> <li>8.4.1 Solving an Equation Containing a Radical</li> </ul>	
<b><u>Week 26, Day 5</u></b>	
<ul style="list-style-type: none"> <li>8.4.2 Solving Equations with Two Radical Expressions</li> </ul>	

<b>Week 27</b>	
Chapter 8: Roots and Radicals	
Assignments	Notes
<b><u>Week 27, Day 1</u></b>	
<ul style="list-style-type: none"> <li>8.4.3 Extraneous Roots</li> </ul>	
<b><u>Week 27, Day 2</u></b>	
<ul style="list-style-type: none"> <li>8.4.4 Solving Equations with Rational Exponents</li> </ul>	
<b><u>Week 27, Day 3</u></b>	
<ul style="list-style-type: none"> <li>8.5.1 Introducing and Writing Complex Numbers</li> <li>8.5.2 Rewriting Powers of <math>i</math></li> </ul>	
<b><u>Week 27, Day 4</u></b>	
<ul style="list-style-type: none"> <li>8.5.3 Adding and Subtracting Complex Numbers</li> </ul>	
<b><u>Week 27, Day 5</u></b>	
<ul style="list-style-type: none"> <li>8.5.4 Multiplying Complex Numbers</li> </ul>	

<b>Week 28</b>	
Chapter 8: Roots and Radicals	
Chapter 8 Test	
Assignments	Notes
<b><u>Week 28, Day 1</u></b>	

<ul style="list-style-type: none"> <li>8.5.5 Dividing Complex Numbers</li> </ul>	
<b><u>Week 28, Day 2</u></b> <ul style="list-style-type: none"> <li>8.6.1 Finding the Length of the Diagonal of a Cube</li> </ul>	
<b><u>Week 28, Day 3</u></b> <ul style="list-style-type: none"> <li>8.6.2 Finding the Distance and the Midpoint between Two Points</li> <li>8.6.3 Applications in Meteorology</li> </ul>	
<b><u>Week 28, Day 4</u></b> <ul style="list-style-type: none"> <li>Chapter 8 Practice Test</li> </ul>	
<b><u>Week 28, Day 5</u></b> <ul style="list-style-type: none"> <li>Chapter 8 Test</li> </ul>	Chapter 8 Test Score: _____

<b>Week 29</b> Chapter 9: Quadratic Equations	
Assignments	Notes
<b><u>Week 29, Day 1</u></b> <ul style="list-style-type: none"> <li>9.1.1 An Introduction to Quadratics</li> <li>9.1.2 Solving Quadratics by Factoring</li> </ul>	
<b><u>Week 29, Day 2</u></b> <ul style="list-style-type: none"> <li>9.2.1 Finding x- and y-intercepts</li> </ul>	
<b><u>Week 29, Day 3</u></b> <ul style="list-style-type: none"> <li>9.2.2 Nice-Looking Parabola</li> </ul>	
<b><u>Week 29, Day 4</u></b> <ul style="list-style-type: none"> <li>9.2.3 Graphing Parabolas</li> </ul>	
<b><u>Week 29, Day 5</u></b> <ul style="list-style-type: none"> <li>9.3.1 Solving by Completing the Square</li> </ul>	

<b>Week 30</b> Chapter 9: Quadratic Equations	
Assignments	Notes
<b><u>Week 30, Day 1</u></b> <ul style="list-style-type: none"> <li>9.3.2 Completing the Square: Another Example</li> </ul>	
<b><u>Week 30, Day 2</u></b> <ul style="list-style-type: none"> <li>9.3.3 Finding the Vertex by Completing the Square</li> </ul>	
<b><u>Week 30, Day 3</u></b> <ul style="list-style-type: none"> <li>9.4.1 Using the Vertex to Write the Equation</li> <li>9.4.2 Building a Polynomial Equation from Its Solutions</li> </ul>	
<b><u>Week 30, Day 4</u></b> <ul style="list-style-type: none"> <li>9.5.1 Proving the Quadratic Formula</li> </ul>	
<b><u>Week 30, Day 5</u></b> <ul style="list-style-type: none"> <li>9.5.2 Using the Quadratic Formula</li> </ul>	

<b>Week 31</b> Chapter 9: Quadratic Equations	
Assignments	Notes
<b><u>Week 31, Day 1</u></b> <ul style="list-style-type: none"> <li>9.5.3 Predicting Types of Solutions From the Discriminant</li> <li>9.5.4 Using the Discriminant to Graph Parabolas</li> </ul>	
<b><u>Week 31, Day 2</u></b> <ul style="list-style-type: none"> <li>9.6.1 Solving for a Squared Variable</li> </ul>	
<b><u>Week 31, Day 3</u></b> <ul style="list-style-type: none"> <li>9.6.2 Finding Real-Number Restrictions</li> </ul>	
<b><u>Week 31, Day 4</u></b> <ul style="list-style-type: none"> <li>9.6.3 Solving Fancy Quadratics</li> </ul>	
<b><u>Week 31, Day 5</u></b> <ul style="list-style-type: none"> <li>9.6.4 Horizontal Parabolas</li> </ul>	

<b>Week 32</b> Chapter 9: Quadratic Equations	
Assignments	Notes
<b><u>Week 32, Day 1</u></b> <ul style="list-style-type: none"> <li>9.7.1 Solving a Quadratic Geometry Problem</li> <li>9.7.2 Solving with the Pythagorean Theorem</li> </ul>	
<b><u>Week 32, Day 2</u></b> <ul style="list-style-type: none"> <li>9.7.3 Solving a Motion Problem</li> </ul>	
<b><u>Week 32, Day 3</u></b> <ul style="list-style-type: none"> <li>9.7.4 Solving a Projectile Problem</li> </ul>	
<b><u>Week 32, Day 4</u></b> <ul style="list-style-type: none"> <li>9.7.5 Solving Other Problems</li> </ul>	
<b><u>Week 32, Day 5</u></b> <ul style="list-style-type: none"> <li>9.8.1 Solving Quadratic Inequalities</li> <li>9.8.2 Solving Quadratic Inequalities: Another Example</li> </ul>	

<b>Week 33</b> Chapter 9 Test Chapter 10: Systems of Equations	
Assignments	Notes
<b><u>Week 33, Day 1</u></b> <ul style="list-style-type: none"> <li>Chapter 9 Practice Test</li> </ul>	
<b><u>Week 33, Day 2</u></b> <ul style="list-style-type: none"> <li>Chapter 9 Test</li> </ul>	Chapter 9 Test Score: _____
<b><u>Week 33, Day 3</u></b> <ul style="list-style-type: none"> <li>10.1.1 An Introduction to Linear Systems</li> <li>10.1.2 Solving a System by Graphing</li> </ul>	
<b><u>Week 33, Day 4</u></b>	

<ul style="list-style-type: none"> <li>10.1.3 Solving a System by Substitution</li> </ul>	
<b><u>Week 33, Day 5</u></b>	
<ul style="list-style-type: none"> <li>10.1.4 Solving a System by Elimination</li> </ul>	

<b>Week 34</b>	
Chapter 10: Systems of Equations	
Assignments	Notes
<b><u>Week 34, Day 1</u></b>	
<ul style="list-style-type: none"> <li>10.2.1 An Introduction to Systems in Three Variables</li> <li>10.2.2 Solving Systems with Three Variables</li> </ul>	
<b><u>Week 34, Day 2</u></b>	
<ul style="list-style-type: none"> <li>10.2.3 Solving Inconsistent Systems</li> </ul>	
<b><u>Week 34, Day 3</u></b>	
<ul style="list-style-type: none"> <li>10.2.4 Solving Dependent Systems</li> </ul>	
<b><u>Week 34, Day 4</u></b>	
<ul style="list-style-type: none"> <li>10.2.5 Solving Systems with Two Equations</li> </ul>	
<b><u>Week 34, Day 5</u></b>	
<ul style="list-style-type: none"> <li>10.3.1 Investments</li> <li>10.3.2 Partial Fractions</li> </ul>	

<b>Week 35</b>	
Chapter 10: Systems of Equations	
Assignments	Notes
<b><u>Week 35, Day 1</u></b>	
<ul style="list-style-type: none"> <li>10.4.1 An Introduction to Matrices</li> </ul>	
<b><u>Week 35, Day 2</u></b>	
<ul style="list-style-type: none"> <li>10.4.2 Using the Gauss-Jordan Method</li> <li>10.4.3 Using Gauss-Jordan: Another Example</li> </ul>	
<b><u>Week 35, Day 3</u></b>	
<ul style="list-style-type: none"> <li>10.5.1 Evaluating 2x2 Determinants</li> </ul>	
<b><u>Week 35, Day 4</u></b>	
<ul style="list-style-type: none"> <li>10.5.2 Evaluating <math>n \times n</math> Determinants</li> </ul>	
<b><u>Week 35, Day 5</u></b>	
<ul style="list-style-type: none"> <li>10.6.1 Using Cramer's Rule</li> </ul>	

<b>Week 36</b>	
Chapter 10: Systems of Equations	
Assignments	Notes
<b><u>Week 36, Day 1</u></b>	
<ul style="list-style-type: none"> <li>10.6.2 Using Cramer's Rule in a 3x3 Matrix</li> </ul>	
<b><u>Week 36, Day 2</u></b>	
<ul style="list-style-type: none"> <li>10.7.1 An Introduction to Graphing Linear Inequalities</li> </ul>	

<ul style="list-style-type: none"> <li>• 10.7.2 Graphing Linear and Nonlinear Inequalities</li> </ul>	
<b><u>Week 36, Day 3</u></b> <ul style="list-style-type: none"> <li>• 10.7.3 Graphing the Solution Set a System of Inequalities</li> </ul>	
<b><u>Week 36, Day 4</u></b> <ul style="list-style-type: none"> <li>• 10.8.1 Solving a Nonlinear System by Elimination</li> </ul>	
<b><u>Week 36, Day 5</u></b> <ul style="list-style-type: none"> <li>• 10.8.2 Solving a Nonlinear System by Substitution</li> </ul>	

<b>Week 37</b> Chapter 10 Test Final Exam	
Assignments	Notes
<b><u>Week 37, Day 1</u></b> <ul style="list-style-type: none"> <li>• Chapter 10 Practice Test</li> </ul>	
<b><u>Week 37, Day 2</u></b> <ul style="list-style-type: none"> <li>• Chapter 10 Test</li> </ul>	
<b><u>Week 37, Day 3</u></b> <ul style="list-style-type: none"> <li>• Study for Final Exam</li> </ul>	
<b><u>Week 37, Day 4</u></b> <ul style="list-style-type: none"> <li>• Practice Final Exam</li> </ul>	
<b><u>Week 37, Day 5</u></b> <ul style="list-style-type: none"> <li>• Final Exam</li> </ul>	Final Exam Score: _____