

COURSE: Regents Algebra AIS – Year 2

MONTH	UNIT	SECTION	SKILL	ASSESSMENT
September	7a	<u>Holt Text Chapter 7:</u> Exponents and Polynomials - Exponents	7-1: Integer Exponents 7-2: Powers of 10 and Scientific Notation 7-3: Multiplication Properties of Exponents 7-4: Division Properties of Exponents	-Practice concepts -Homework -Participation/Discussion -Vocabulary -Quizzes -Unit test - Regents Review #1
September	7b	<u>Holt Text Chapter 7:</u> Exponents and Polynomials - Polynomials	7-5: Polynomials - Standard Form / Degree 7-6: Adding and Subtracting Polynomials 7-7: Multiplying Polynomials 7-8: Special Products of Binomials 12-6: Division of Polynomials by a Monomial Problem Solving	-Practice concepts -Homework -Participation/Discussion -Quizzes -Unit test - Regents Review #2

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October	8	<u>Holt Text Chapter 8:</u> Factoring Polynomials - Factoring Methods - Applying Factoring Methods	8-1: Factors and Greatest Common Factors 8-2: Factoring by GCF 8-5: Factoring Special Products 8-3: Factoring Quadratic Trinomials 8-6: Choosing a Factoring Method Problem Solving	-Practice concepts -Homework -Participation/Discussion -Quizzes -Unit test - Regents Review #3
November	9a	<u>Holt Text Chapter 9:</u> Quadratic Functions & Equations - Quadratic Functions	9-1: Identifying Quadratic Functions 9-2: Characteristics of Quadratic Functions - Axis of Symmetry / Vertex 9-3: Graphing Quadratic Functions 9-4: Transforming Quadratic Functions	-Practice concepts -Homework -Participation/Discussion - Transforming Quadratic Functions Lab -Quizzes -Unit test - Regents Review #4
December	9b	<u>Holt Text Chapter 9:</u> Quadratic Functions & Equations - Solving Quadratic Equations	9-5: Solving Quadratic Equations by Graphing / Roots 9-6: Solving Quadratic Equations by Factoring 9-7: Solving Quadratic Equations by Using Sq. Roots Quadratic Word Problems	-Practice concepts -Homework -Participation/Discussion -Quizzes - Quadratic Modeling -Unit test - Cache Review - Regents Review #5

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January	11a	<u>Holt Text Chapter 11:</u> Exponential & Radical Functions <ul style="list-style-type: none"> <li>- Exponential Functions</li> <li>- Radical Functions and Equations</li> </ul>	11-2: Exponential Functions <ul style="list-style-type: none"> <li>- Domain/Range</li> </ul> 11-6: Simplifying Radical Expressions 11-7: Adding and Subtracting Radical Expressions 11-8: Multiplying and Dividing Radical Expressions 11-3: Exponential Growth & Decay 11-4: Linear, Quadratic, and Exponential Models	-Practice concepts -Homework -Participation/Discussion -Quizzes -Unit test - Regents Review #6
February	11b	<u>Holt Text Chapter 12:</u> Extension <ul style="list-style-type: none"> <li>- Trigonometric Ratios</li> </ul>	- Pythagorean Theorem Review - Trig Ratios - Review Solving Proportions - Real Life Applications	-Practice concepts -Homework -Participation/Discussion -Quizzes -Cache Review -Unit test - Regents Review #7
March	12	<u>Holt Text Chapter 12:</u> Rational Functions and Equations <ul style="list-style-type: none"> <li>- Rational Functions and Expressions</li> <li>- Operations with Rational Expression and Equations</li> </ul>	12-2: Rational Functions 12-3: Simplifying Rational Expressions / Undefined 12-4: Multiplying and Dividing Rational Expressions 12-5: Adding and Subtracting Rational Expressions 12-7: Solving Rational Equations Solving Fractional Equations	-Practice concepts -Homework -Participation/Discussion -Quizzes - Final Four Review Activity -Unit test - Regents Review #8

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April	10a	<u>Holt Text Chapter 10:</u> Data Analysis and Probability - Data Analysis	10-1: Organizing and Displaying Data 10-2: Frequency and Histograms 10-3: Data Distributions - Box & Whisker - Linear Transformations of Measure of Central Tendency 10-4: Misleading Graphs and Statistics - Biased / Unbiased Data - Percentiles - Univariate / Bivariate 4-5: Line of Best Fit (Interpolate / Extrapolate)	-Practice concepts -Vocabulary -Homework -Participation/Discussion -Quizzes - Regents Review #9 -Unit test
May	10b	<u>Holt Text Chapter 10:</u> Data Analysis and Probability - Probability	10-5: Experimental Probability - Sample Space 10-6: Theoretical Probability - Complement of an Event 10-7: Independent and Dependent Events 10-8: Permutations & F. C. P. Conditional Probability	-Practice concepts -Homework -Participation/Discussion -Quizzes -Supplemental Labs -Unit test - Regents Review #10
June	Review		Station Review Algebra Cache Review	-Practice concepts -Homework -Participation/Discussion -Quizzes -Unit test