

**Houston County Schools  
Honors Algebra II Pacing Guide  
2011-2012**

<b>1st NINE WEEKS</b>				
WEEK	SECTION/OBJECTIVE	ALCOS#	AHSGE	Date(s) Taught
1	1.1 Expressions and Formulas		I-1; II-2; IV-1; VI-1; VII-4,8	
	1.2 Properties of Real Numbers (intro to complex #'s, 5-9)		I-1; II-2; IV-1; VI-1; VII-4,8	
	1.3 Solving Equations		I-1; II-2; IV-1; VI-1; VII-4,8	
2	1.4 Solving Absolute Value Equations	7	II-1,4; V-3; VI-1; VII-8	
	1.5 Solving Inequalities	7	II-1,4; V-3; VI-1; VII-8	
	1.6 Solving Compound and ABS Equations	7	II-4; V-3; VI-1; VII-8	
3	2.1 Relations and functions	3	III-1,2; IV-2; V-1,2,4; VII-8	
	2.2 Linear Equations	3	III-1,2; IV-2; V-1,2,4; VII-8	
	2.3 Slope	3	IV-1; V-1,2,4; VI-1; VII-9	
4	2.4 Writing Linear Equations	3, 14	IV-1; V-1.2.4; VI-1; VII-9	
	2.5 Using Scatter Plots	3, 14	IV-2; V-1,2,4; VI-1; VII-9	
	2.6 Special Functions	3	III-1,2; IV-2; V-1,2,4; VII-8	
5	3.1 Solving Systems of Equations by Graphing	8	II-3; V-1,4; VI-1; VII-8	
	3.2 Solving Systems of Equations Algebraically	8	II-3; V-1,4; VI-1; VII-8	
6	3.3 Solving Systems of Inequalities by Graphing	8	VI-1, VII-8	
	3.4 Linear Programming	8	VI-1, VII-8	
7	3.5 Solving Systems of Equations in Three Variables	8	VI-1, VII-8	
8	4.1 Introduction to Matrices	8	VII-8	
	4.2 Operations with Matrices	8	VII-8	
9	4.3 Multiplying Matrices	8	VII-8	
	4.4 Transformations with Matrices	8	IV-1; VII-4, 8	
END OF 1st NINE WEEKS				

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<b>2nd NINE WEEKS</b>				
WEEK	SECTION/OBJECTIVE	ALCOS#	AHSGE	Date(s) Taught
10	4.5 Determinants	8	IV-1; VII-4, 8	
	4.6 Cramer's Rule	8	VI-1; VII-8	
11	4.7 Identity and Inverse Matrices	8	VII-8	
	4.8 Using Matrices to Solve Systems of Equations	8	II-3; VI-1; VII-8	
12	4.8 Calculator Activity – Augmented Matrices Unit 4 Review Matrices	8	VII-8	
	5.1 Monomials (Review)	6	I-1,2; VII-8	
	5.2 Polynomials (Review)	6	I-1,2; VII-8	
	5.3 Dividing Polynomials (Review)	6	I-4; VII-8	
13	5.4 Factoring Polynomials (Review)	6	I-1; VII-8	
	5.5 Roots of Real Numbers	2, 3, 7	VII-8	
	5.6 Radical Expressions	2, 3, 7	VII-8	
14	5.7 Rational Exponents	2	VII-8	
	5.8 Radical Equations and Inequalities	7	VII-8	
	5.9 Complex Numbers	1, 2, 7	VII-8	
15	6.1 Graphing Quadratic Functions	3, 5	VI-1, VII-4,8	
	6.2 Solving Quadratic Equations by Graphing	4, 5, 7, 14	I-4; II-2; VII-8	
	6.3 Solving Quadratic Equations by Factoring (Alg. 1 Review)	4, 5, 7, 14	I-4; II-2; VII-8	
16	6.4 Completing the Square (Derive Quadratic Formula by Completing the Square)	4	VII-8	
	6.5 The Quadratic Formula and the Discriminant	3	VII-8	
17	Graphing Calculator Activity (Families of Parabolas)	3	VII-8	
	6.6 Analyzing the Graphs of Quadratic Functions	3	VII-8	
18	Review			
	END OF 2 <sup>nd</sup> NINE WEEKS/ SEMESTER EXAM			

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<b>3<sup>rd</sup> NINE WEEKS</b>				
WEEK	SECTION/OBJECTIVE	ALCOS#	AHSGE	Date(s) Taught
19	7.1 Polynomial Functions	4	VII-8	
	7.2 Graphing Polynomials Functions	4	VII-8	
	7.4 The Remainder and Factor Theorems	4	VII-8	
20	7.5 Roots and Zeros	4	I-4, VII-8	
	7.6 Rational Zero Theorem	4	VII-8	
	7.7 Operations on Functions Introduction	4	VII-8	
21	7.8 Inverse Relations and Functions	6	VII-8	
	7.9 Square Root Functions and Inequalities; (may omit if needed)	6	VII-8	
22	9.1 Multiplying and Dividing Rational Expressions	6		
	9.2 Adding and Subtracting Rational Expressions	6	VII-4, 8	
23	9.3 Graphing Rational Functions	3	VII-8	
	9.4 Direct, Joint, and Inverse Variation	3	VII-8	
24	9.5 Classes of Functions	3	VI-1, VII-7,8	
25	AHSGE Review			
26	9.6 Solving Rational Equations and Inequalities	6, 7	III-1; V-1,4; VI-1; VII-8	
	10.1 Exponential functions	3		
	10.2 Logarithms and Logarithmic Functions	3	III-1, VII-8	
27	12.1 The Counting Principle	4, 15	VII-8	
	12.2 Permutations and Combinations	4, 15	VII-8	
	12.3 Probability	4, 15	VII-6, 8	
	END OF 3 <sup>rd</sup> NINE WEEKS			

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<b>4th NINE WEEKS</b>				
WEEK	SECTION/OBJECTIVE	ALCOS#	AHSGE	Date(s) Taught
28	12.4 Multiplying Probabilities			
	12.5 Add Probabilities			
29	12.9 Sampling and Error			
	13.1 Right Angle Trigonometry	10, 11	VII-1, 4, 8	
30	13.2 Angles and Angle Measure	10, 11	VII-1, 4, 8	
	13.3 Trigonometric Functions of General Angles	11	VII-1, 4, 8	
31	13.4 Law of Sines	10	VII-1, 2, 8	
32	13.5 Law of Cosines	20	VII-1, 4, 8	
33	13.6 Circular Functions	10	VII-1, 4, 8	
34	14.1 Graphing Trigonometric Functions	9		
	14.3 Trigonometric Identities	12	VII-8	
35	14.4 Verifying Trigonometric Identities	12	VII-1, 8	
36	REVIEW			
	END OF 4 <sup>th</sup> NINE WEEKS/SEMESTER EXAM			