

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

1st NINE WEEKS				
SECTION	OBJECTIVE	ALCOS#	AHSGE	Date(s) Taught
1.1		1, 11	VI-1, VII-8	
1.2	Order of operations	1, 11	I-1	
1.4	Use properties of identity & equality	1	I-1	
1.5	Use the distributive property	1, 11	I-1	
1.6	Use the commutative & associative properties	1, 11	I-1	
1.8	Interpret graphs of functions	3		
1.9	Analyze data in tables and graphs	12		
2.1	Graph rational numbers on a number line	1	I-1	
2.2	Add and subtract rational numbers	1	I-1	
2.3-2.4	Multiply/Divide rational numbers & integers	1	I-1	
2.5	Create stem and leaf plots and line plots	12		
2.5	Find mean, median and mode	12	VII-5	
2.6	Probability and odds	15	VII-6	
2.7	Find square roots	1		
3.2	Solve equations by addition/subtraction	7, 11	II-1	
3.3	Solve equations by multiplication/division	7, 11	II-1	
3.4	Solve multi-step equations	7, 11	II-1	
3.5	Solve equations with grouping symbols	7, 11	II-1	
3.6	Solve proportions	7, 11	II-1	
3.7	Find percent of increase and decrease	7	II-1	
3.9	Solve mixture and uniform motion problems	7	VII-8	
END OF 1st NINE WEEKS				

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2nd NINE WEEKS				
SECTION	OBJECTIVE	ALCOS#	AHSGE	Date(s) Taught
4.1	Locate/graph points on coordinate plane	10	V-1, V-4	
4.3	Represent relations as sets	3, 4		
4.4	Find the range of given domain	3	III-2	
4.5	Graph linear equations	2, 11	V-1, V-4	
4.6	Determine if a relation is a function and find functional values	3, 4	III-1	
5.1	Find slope	2, 10	IV-2	
5.2	Use direct variation as applies to slope	2, 7	IV-2, VII-7	
5.3	Write/graph equations in slope-intercept form	2	V-1, V-4	
5.4	Write equation of line given point and slope	2	V-1, V-4	
5.5	Write equation in point-slope form	2	V-1, V-4	
5.6	Write equation of line involving parallel and perpendicular restrictions	2	V-1, V-4	
6.1	Solve linear inequalities by addition or subtraction	7	V-3	
6.2	Solve linear inequalities by multiplication	7	V-3	
6.3	Solve linear inequalities with more than one operation	7	V-3	
6.4	Solve compound inequalities with <i>and/or</i>	7	V-3	
6.5	Solve absolute value equations/inequalities	7	II-1, V-3	
6.6	Graph inequalities on the coordinate plane	2, 7	V-2, V-3	
	END OF 2 nd NINE WEEKS/SEMESTER EXAM			

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3rd NINE WEEKS				
SECTION	OBJECTIVE	ALCOS#	AHSGE	Date(s) Taught
7.1	Determine the number of solutions a system has/solve by graphing	8	II-3	
7.2	Solve systems of equations by substitution	8	II-3	
7.3	Solve systems of equations by elimination using addition and subtraction	8	II-3	
7.4	Solve systems of equations by elimination using multiplication	8	II-3	
7.5	Solve systems of inequalities by graphing	8	II-3, V-3	
8.1	Multiply monomials	1, 5, 11	I-3	
8.2	Simplify expressions involving monomials and negative exponents	1, 5, 11	I-3	
8.4	Find the degree of a polynomial/arrange in ascending or descending order	5, 11	I-3	
8.5	Add and subtract polynomials	5, 11	I-2	
8.6	Find the product of a monomial and a polynomial	5, 11	I-3	
8.7-8.8	Multiply binomials by FOIL and distribution	5, 11	I-3	
9.1	Find prime factorizations and GCF of monomials	11	I-4	
9.2	Factor polynomials by the distributive property	6, 9, 11	I-4	
9.3	Factor trinomials (lead coefficient of one) solve equations	6, 9, 11	I-4	
9.4	Factor trinomials (lead coefficient > one)	6, 9, 11	I-4	
9.5	Factor binomials that are the differences of two squares	6, 9, 11	I-4	
9.6	Factor perfect square trinomials	6, 11	I-4	
	END OF 3 rd NINE WEEKS			

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4th NINE WEEKS				
SECTION	OBJECTIVE	ALCOS#	AHSGE	Date(s) Taught
10.1	Graph quadratic functions/Find the axis of symmetry and vertex of a parabola	4, 11	II-2	
10.2	Solve quadratic equations by graphing	4, 9, 11	II-2	
10.3	Solve quadratic equations by completing the square	9, 11	II-2	
10.4	Solve using the Quadratic Formula	9, 11	II-2	
11.1	Simplify radical expressions	1, 11	IV-2	
11.2	Add, subtract & multiply radical expressions	1, 11	IV-2	
11.3	Solve radical equations	7, 11	IV-2	
11.4	Pythagorean Theorem	7, 11	VII-2	
11.5	Find the distance between two points	10	IV-2	
11.6	Determine similarity between two triangles		VII-3	
11.7	Define sine, cosine and tangent ratios			
12.2	Simplify rational expressions	11	VII-8	
12.3-12.4	Multiply or divide rational expressions	11	VII-8	
12.5	Divide polynomials by monomials and binomials	5, 11	VII-8	
12.6-12.7	Add or subtract rational expressions	11	VII-8	
12.8	Simplify mixed expressions and complex fractions		VII-8	
12.9	Solve rational equations		VII-8	
	(If time permits: the objectives from Chapters 13 and 14)			
	END OF 4th NINE WEEKS/SEMESTER EXAM			