

**MOBILE COUNTY PUBLIC SCHOOLS  
DIVISION OF CURRICULUM & INSTRUCTION  
HIGH SCHOOL PACING GUIDE AT A GLANCE  
2008-2009  
First Semester  
Algebra I**

AHSGE OBJ. #	# ITEMS ON TEST	QUIZ TRAX #	COS #	WEEK	Standards/Objectives  First Quarter = 44 Days	Dates:	
						Taught	Tested
I-1, II-1, VI-1		1 and 7	1  7	Week 1 Aug 11 – 15	<ul style="list-style-type: none"> <li>• Simplify numerical expressions using properties of real numbers and order of operation.</li> <li>• Solve multi-step equations.</li> </ul> <p>(Fundamentals of Algebra Unit Lesson A, Sections 2-1, FOA Lesson B and 2-2).</p>		
I-1, I-2, II-1		1, 7 and 11	1  7 7c  11  11a	Week 2 Aug 18 – 22	<ul style="list-style-type: none"> <li>• Simplify numerical expressions using properties of real numbers and order of operation.</li> <li>• Solve multi-step equations.</li> <li>• Model real-world problems by developing and solving equations.</li> <li>• Solve problems algebraically that involve area and perimeter of a polygon, area and circumference of a circle.</li> <li>• Apply formulas to solve word problems</li> </ul> <p>(FOA Lesson C, Sections 2-3, 2-4, FOA Lesson D, 2-5 and 2-6).</p>		
II-4, V-3, VII-5, VII-8		7, 11, 12, 13	7 7c  11  11a 12 12b 13	Week 3 Aug 25 – 29	<ul style="list-style-type: none"> <li>• Solve multi-step equations and inequalities.</li> <li>• Modeling real-world problems by developing and solving equations and inequalities.</li> <li>• Solve problems algebraically that involve area and perimeter of a polygon, area and circumference of a circles.</li> <li>• Apply formulas to solve word problems.</li> <li>• Compare various methods of data reporting.</li> <li>• Determining effects of outliers.</li> <li>• Identifying characteristics of a data set. Graphing the solution of an inequality.</li> </ul> <p>(Required P. 737, 738, 740, 5-1 opt., Sections 2-7, 3-1, 3-2, 3-3 and 3-4).</p>		
II-4, V-3,		7	7 7b 7c	Week 4 Sept 2 – 5 (4 days)	<ul style="list-style-type: none"> <li>• Solve multi-step inequalities.</li> <li>• Graphing the solution of an inequality.</li> <li>• Model real-world problems by developing and solving equations and inequalities.</li> </ul> <p>(Sections 3-5 and 3-6)</p>		
III-1, III-2 VII-7, VII-3, VII-8, VII-6		3, 7, 11, 14 and 15	3 3a 7 7c  11  11a 14  15 15 a	Week 5 Sept 8 – 12	<ul style="list-style-type: none"> <li>• Determine characteristics of a relation.</li> <li>• Find the range of a function when given its domain.</li> <li>• Solve multi-step equations.</li> <li>• Model real-world problems by developing and solving equations.</li> <li>• Solve problems algebraically that involve volume and of right rectangular prisms.</li> <li>• Apply formulas to solve word problems.</li> <li>• Use a scatterplot and its line of best fit or a specific line graph to determine the relationship existing between two sets of data.</li> <li>• Estimate probabilities given data in lists or graphs.</li> <li>• Compare theoretical and experimental probabilities.</li> </ul> <p>(Sections 4-1, 4-2, 4-3, 4-5, 4-6, 5-2 and 1-9)</p>		

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						Taught	Tested
III-1, III-2, VII-8, V-1, V-4, VII-7		2, 4, and 7	2b  2c  4 7c	Week 6 Sept 15 – 19	AHSGE  <ul style="list-style-type: none"> <li>• Determine the equations of linear function given a graph, a table of values, mappings, or sets of ordered pairs.</li> <li>• Graph two-variable linear equations and inequalities on the Cartesian plane.</li> <li>• Represent graphically common relations.</li> <li>• Model real-world problems by developing and solving equations.</li> </ul> (Sections 5-3, 5-4, 5-5 and 12-1)		
IV-2, III-1, III-2, V-1, V-2, V-4, VI-1, VII-8		2, 4 and 10	2  2a  2b 2c 4 10  10a	Week 7 Sept 22 – 26	<ul style="list-style-type: none"> <li>• Analyze linear functions from their equations, slopes and intercepts.</li> <li>• Finding the slope of a line from its equation or by applying the slope formula.</li> <li>• Determine the equation of linear functions.</li> <li>• Graph two-variable linear equations on the Cartesian plane.</li> <li>• Represent graphically common relations.</li> <li>• Calculate slope of a line segment when given coordinates of its endpoints on the Cartesian plane.</li> <li>• Deriving the slope formula.</li> </ul> (Sections 6-1, 6-2, 6-3 and 6-4).		
V-2, V-4, VI-1, VII-8.		2, 4, 12, 13 and 14	2  2a  2b 4 12 12a 13 14	Week 8 Sept 29 – Oct 3	<ul style="list-style-type: none"> <li>• Analyze linear functions from their equations, slopes and intercepts.</li> <li>• Finding the slope of a line from its equation or by applying the slope formula.</li> <li>• Determine the equation of linear functions.</li> <li>• Represent graphically common relations</li> <li>• Compare various methods of data reporting.</li> <li>• Determining effects of linear transformations of data.</li> <li>• Identifying characteristics of a data set.</li> <li>• Use a scatterplot and its line of best fit or a specific line graph to determine the relationship existing between two sets of data.</li> </ul> (Sections 6-5, 6-6, and 6-7).		
				Week 9 Oct 6 -10	<ul style="list-style-type: none"> <li>• Review for CRT</li> <li>• Criterion Referenced Test will be given here.</li> </ul>		

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						Taught	Tested
II-3, VII-8		8	8 8a	Week 10 Oct 15 -17 (3 days)	<ul style="list-style-type: none"> <li>Solve systems of linear equations in two variables graphically or algebraically.</li> <li>Model real-world problems by developing and solving systems of linear equations.</li> </ul> (Sections 7-1, 7-2, and 7-3).		
II-3, V-3		2 and 8	2c 8 8a	Week 11 Oct 20 – 24	<ul style="list-style-type: none"> <li>Graph two-variable linear inequalities on the Cartesian plane.</li> <li>Solve systems of linear equations and inequalities in two variables graphically or algebraically.</li> <li>Model real-world problems by developing and solving systems of linear equations and inequalities.</li> </ul> (Sections 7-3, 7-4, 7-5, and 7-6)		
Prerequisite to I-3, IV-1, III-1, III-2, V-4, VII-8 (for 8-7)		1, 5, 7 and 11	1a 5 5a 7c 8 8a 11 11a	Week 12 Oct 27 – 31	<ul style="list-style-type: none"> <li>Apply laws of exponents to simplify expressions.</li> <li>Perform operations of addition, subtraction, and multiplication of polynomial expressions.</li> <li>Divide by a monomial.</li> <li>Model real-world problems by developing and solving equations and inequalities.</li> <li>Solve systems of linear equations and inequalities in two variables graphically or algebraically. Model real-world problems by developing and solving systems of linear equations and inequalities.</li> <li>Model real-world problems by developing and solving systems of linear equations and inequalities.</li> <li>Solve problems algebraically that involve area and perimeter of a polygon, area and circumference of a circle, and volume and surface area of right rectangular prisms.</li> <li>Apply formulas to solve word problems.</li> </ul> (Sections 7-6, 8-1, 8-2, 8-3, 8-4, and 8-5).		
I-2, IV-1, I-4		4, 5, 7, and 11	4a 5 7 11 11a	Week 13 Nov 3 – 7	<ul style="list-style-type: none"> <li>Identify situations that are modeled by common relations.</li> <li>Perform operations of addition, subtraction, and multiplication on polynomials expressions.</li> <li>Solve multi-step equations.</li> <li>Solve problems algebraically that involve volume of a right circular cylinder and a right rectangular prism.</li> <li>Apply formulas to solve word problems.</li> </ul> (Sections 8-7, 9-1, 9-2 omit factoring, and 9-3)		
I-3, IV-1, I-4		5, 6 and 11	5 6 11 11a	Week 14 Nov 10 – 14 (4 days)	<ul style="list-style-type: none"> <li>Perform operations of addition, subtraction, and multiplication on polynomials expressions.</li> <li>Factor binomials, trinomials, and other polynomials using GCF, difference of squares, perfect square trinomials, and grouping</li> <li>Solve problems algebraically that involve area and perimeter of a polygon, area and circumference of a circle, and volume and surface area of right rectangular prisms.</li> <li>Apply formulas to solve word problems.</li> </ul> (Sections 9-4, 9-2 factoring, 9-5, 9-6 and 9-7)		

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I-4, III-1, III- 2, V-4		1, 6, 9 and 11	1  6  9 9a 11   11a	Week 15 Nov 17 – 21	<ul style="list-style-type: none"> <li>• Simplify numerical expressions using properties of real numbers including those involving square roots, radical form, or decimal approximations.</li> <li>• Factor binomials, trinomials, and other polynomials using GCF, difference of squares, perfect square trinomials, and grouping.</li> <li>• Solve quadratic equations using the zero product property.</li> <li>• Approximate solutions graphically and numerically.</li> <li>• Solve problems algebraically that involve area and perimeter of a polygon, area and circumference of a circle, and volume and surface area of right circular cylinders or right rectangular prisms.</li> <li>• Apply formulas to solve word problems.</li> </ul> <p>(Section 9-8, 10-1, 10-4, 10-2, and 10-3)</p>		
V-4, III-1, III-2, II-2		9, and 11	9, 9a 11   11a	Week 16 Nov 24 – 25 (2 days)	<ul style="list-style-type: none"> <li>• Solve quadratic equations using the zero product property.</li> <li>• Approximate solutions graphically and numerically.</li> <li>• Solve problems algebraically that involve area and perimeter of a polygon, area and circumference of a circle, and volume and surface area of right circular cylinders or right rectangular prisms.</li> <li>• Apply formulas to solve word problems.</li> </ul> <p>(Sections 10-4 and 10-5)</p>		
		1	1	Week 17 Dec 1 – 5	<ul style="list-style-type: none"> <li>• Simplify numerical expressions using properties of real numbers including those involving square roots, radical form, or decimal approximations.</li> </ul> <p>(Section 10-7 and 11-1)</p>		
III-1, III-2, IV-2, V-4, VII-2,		1, 4, 7, 10, and 11	1  4 7 7c  10  10a 11  11a	Week 18 Dec 8 -12	<p>AHSGE</p> <ul style="list-style-type: none"> <li>• Simplify numerical expressions using properties of real numbers including those involving square roots, radical form, or decimal approximations.</li> <li>• Represent graphically common relations.</li> <li>• Solve multi-step equations.</li> <li>• Model real-world problems by developing and solving equations.</li> <li>• Calculate length and midpoint of a line segment when given coordinates of its endpoints on the Cartesian plane.</li> <li>• Deriving the distance and midpoint formulas.</li> <li>• Solve problems algebraically that involve area and perimeter of a polygon, area and circumference of a circle, and volume and surface area of right circular cylinders or right rectangular prisms.</li> <li>• Apply formulas to solve word problems.</li> </ul> <p>(Section 11-4, 11-2, 11-3, Applications Unit, 11-5 and 11-6)</p>		
				Week 19 Dec 15 – 19	<ul style="list-style-type: none"> <li>• Review for CRT</li> </ul> <p>1. Criterion Referenced Test will be given here.</p>		