

# CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE

**GRADE: 9-12**

**SUBJECT: Algebra 1**

**FIRST NINE WEEKS – Aug. 9 - Oct. 13, 2006-2007**

\* LEVEL:      I=INTRODUCTORY                      M=MASTERY                      O=ONGOING

Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 1	1A 1B	I I	<u>Skills: Recognize, classify, and use real numbers and their properties.</u> <u>Model properties and equivalence relationships of real numbers.</u>	Class work ands tests.	Write and work examples on the board. Assign problems from the textbook.
Week 2	1C  3C  5A 6A	I  I  I I	<u>Skills: Demonstrate and apply properties of real numbers to algebraic expressions.</u> <u>Solve and graph absolute value equations and inequalities in one variable.</u> <u>Evaluate and apply formulas in problem solving.</u> <u>Recognize and demonstrate the appropriate use of terms, symbols, and notations.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.    Worksheets

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	District/State				
Week 3	6A  6A 1C  1C	M  O O  O	<u>Skills: Recognize and demonstrate the appropriate use of terms, symbols, and notations.</u>  <u>Demonstrate and apply properties of real numbers to algebraic expressions.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.          Worksheets
Week 4	6A  6A 1C 1C	O  O O M	<u>Skills: Recognize and demonstrate the appropriate use of terms, symbols, and notations.</u>  <u>Demonstrate and apply properties of real numbers to algebraic expressions.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.

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	District/State				
Week 5	5A 1B  3A  3A	O O  I  O	<u>Skills: Evaluate and apply formulas.</u>  <u>Model properties and equivalence relationships of real numbers.</u> <u>Solve, check, and graph equations and inequalities in one variable, including rational coefficients.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.
Week 6	3A 3A 3A 3A	O O O M	<u>Skills: Solve, check, and graph equations and inequalities in one variable, including rational coefficients.</u>		Worksheets

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 7	6F 6F 6F 6F	I O O M	<u>Skills: Use appropriate algebraic language to justify solutions and processes used in problem solving.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.
Week 8	6C 3A 6F 4C	I O O I	<u>Skills: Translate between verbal expressions and algebraic expressions.</u>  <u>Solve, check, and graph equations and inequalities in one variable, including rational coefficients.</u>  <u>Factor polynomials using algebraic and geometric models.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.  Worksheets

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 9	6A	O	<u>Skills: Recognize and demonstrate the appropriate use of terms, symbols, and notations.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.
	3A	O	<u>Solve, check, and graph equations and inequalities in one variable, including rational coefficients.</u>		
	3A	O			
	3A	M			
					Worksheets

# CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE

**GRADE: 9-12**

**SUBJECT: Algebra 1**

**SECOND NINE WEEKS – Oct. 17 – Dec. 21, 2006-2007**

\* LEVEL:      I=INTRODUCTORY                      M=MASTERY                      O=ONGOING

Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 10	6F	O	<u>Skills: Use appropriate algebraic language to justify solutions and processes use in problem solving.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.
	6F	O			
	8A	I	<u>Collect, organize, graph, and interpret data sets, draw conclusions, and make predictions from the analysis of data.</u>		
	3A	O	<u>Solve, check, and graph equations and inequalities.</u>		
Week 11	4B	I	<u>Skills: Add, subtract, multiply, and divide polynomials.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.
	4A	I	<u>Classify polynomials and determine degree.</u>		
	4A	M			
	4A				

Worksheets

# CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE

**GRADE: 9-12**      **SUBJECT: Algebra 1**      **SECOND NINE WEEKS – Oct. 17 – Dec. 21, 2006-2000**

\* LEVEL:      I=INTRODUCTORY      M=MASTERY      O=ONGOING

Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 12	3B	I	<u>Skills: Graph and check linear equations in two variables.</u>	Class work and tests.	Write and work examples on the board. Assign problems from the textbook.
	3D	I	<u>Use algebraic and graphical methods to solve systems of linear equations and inequalities.</u>		
	3D	O			
	1A	O	<u>Describe the real number system using a diagram to show relationships of component sets of numbers that compose the set of real numbers.</u>		
Week 13	1D	I	<u>Skills: Perform basic operations on square roots excluding rationalizing the denominator.</u>	Class work and tests.	Write and work examples on the board. Use calculators to perform calculations. Assign problems from the textbook.
	1D	O			
	1D	O			
	1D	M			



# CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE

**GRADE: 9-12**

**SUBJECT: Algebra 1**

**SECOND NINE WEEKS – Oct. 17 – Dec. 21, 2006-2007**

\* LEVEL:      I=INTRODUCTORY                      M=MASTERY                      O=ONGOING

Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 16	2A  2A  2A 2A	I  O  O M	<u>Skills: Analyze relationships between two variables, identify domain and range, determine whether a relation or function.</u>	Class work and tests.	Write and work examples on the board. Use graphing calculators. Assign problems from the textbook.
Week 17	5D  5D 5D 5D	I  O O M	<u>Skills: Using the appropriate formula to determine length, midpoint and slope of a line segment.</u>	Class work and tests.	Write and work examples on the board. Use graphing calculators. Assign problems from the textbook.    Worksheets

# CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE

**GRADE: 9-12      SUBJECT: Algebra 1      SECOND NINE WEEKS – Oct. 17 – Dec. 21, 2006-2007**

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 18	4B	O	<u>Skills: Add, subtract, multiply and divide polynomials.</u>	Class work and tests.	Write and work examples on the board. Use graphing calculators. Assign problems from the textbook.
	2A	O	<u>Analyze relationships between two variables, identify domain and range, determine whether a relation or a function.</u>		
	4D	I	<u>Investigate and apply real number solutions to quadratic equations algebraically and graphically.</u>		
	7C	I	<u>Use ratio and proportion to solve problems including direct variation.</u>		
					Worksheets

# CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE

**GRADE: 9-12**

**SUBJECT: Algebra 1**

**THIRD NINE WEEKS – Jan. 8 – Mar. 9, 2006-2007**

\* LEVEL:      I=INTRODUCTORY                      M=MASTERY                      O=ONGOING

Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 19	7C 4F 2D 2C	O I I I	<u>Skills: Use ratio and proportion to solve problems including direct variation.</u>  <u>Apply polynomial operations to problems involving perimeter and area.</u>  <u>Apply patterns to graphs and use appropriate technology.</u> <u>Determine the rule that describes a pattern and determine the pattern given the rule.</u>	Class work and tests.	Write and work examples on the board. Use graphing calculators. Assign problems from the textbook.
Week 20	5B 5B 5E 5E	I O I O	<u>Skills: Reinforce formulas experimentally to verify solutions.</u>  <u>Use formulas to write equations of lines.</u>		Worksheets

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**SUBJECT: Algebra 1**

**THIRD NINE WEEKS – Jan. 8 – Mar. 9, 2006-2007**

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 21	5A 2B  2B 2B	O I  O M	<u>Skills: Evaluate and apply formulas.</u>  <u>Explain and illustrate how change in one variable may result in a change in another variable.</u>	Class work and tests.	Write and work examples on the board. Use graphing calculators. Assign problems from the textbook.
Week 22	5D  4E  3A  5A	O  I  O  O	<u>Skills: Using the appropriate formula to determine length, midpoint, and slope of a line segment.</u> <u>Use convincing arguments to justify unfactorable polynomials.</u>  <u>Solve, check, and graph equations and inequalities in one variable.</u> <u>Evaluate and apply formulas.</u>		Worksheets

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 23	7D 6F  3A  4C	I O  O  O	<u>Skills: Apply the concept of slope to parallel and perpendicular lines.</u>  <u>Use appropriate algebraic language to justify solutions and processes used in problem solving.</u> <u>Solve, check, and graph equations and inequalities in one variable, including coefficients.</u>  <u>Factor polynomials using algebraic and geometric models.</u>	Class work and tests.	Write and work examples on the board. Use the graphing calculators. Assign problems from the textbook.
Week 24	3A 3C  7C  7C	O O  O  O	<u>Skills: Solve, check, and graph equations and inequalities.</u> <u>Solve and graph absolute equations and inequalities in one variable.</u> <u>Use ratio and proportion to solve problems including direct variation.</u>		Worksheets

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 25	2B 2D  3C  3C	O O  O  O	<u>Skills: Explain and illustrate how change in one variable may result in change in another variable.</u> <u>Apply patterns to graphs and use appropriate technology.</u> <u>Solve and graph absolute value equations and inequalities in one variable.</u>	Class work and tests.	Write and work examples on the board. Use the graphing calculator. Assign problems from the textbook.
Week 26	5A 5B  5E 4A	O O  O O	<u>Skills: Evaluate and apply formulas.</u> <u>Reinforce formulas experimentally to verify solutions.</u> <u>Use formulas to write equations of lines.</u> <u>Classify polynomials and determine the degree.</u>	Class work and tests.	Worksheets

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 27	5A 8A  1B  1C	O O  O  O	<u>Skills: Evaluate and apply formulas.</u> <u>Collect, organize, graph, and interpret data sets, draw conclusions, and make predictions from the analysis of data.</u> <u>Model properties and equivalence relationships of real numbers.</u> <u>Demonstrate and apply properties of real numbers to algebraic expressions.</u>	Class work and tests.	Write and work examples on the board. Use the graphing calculator. Assign problems from the textbook.

# CARROLL COUNTY SCHOOL DISTRICT CURRICULUM WEEKLY PACING GUIDE

**GRADE: 9-12**

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**FOURTH NINE WEEKS – Mar.19 – May 24, 2006-2007**

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 28	3E	I	<u>Skills: Translate problem-solving situations into algebraic sentences and determine solutions.</u>	Class work and tests.	Write and work examples on the board. Use the graphing calculators. Assign problems from the textbook.
	6B	O	<u>Distinguish between linear and nonlinear equations.</u>		
	4F	O	<u>Apply polynomial operations to problems involving perimeter and area.</u>		
	7B	O	<u>Define slope as a rate of change using algebraic and geometric models.</u>		
Week 29	7D	O	<u>Skills: Apply the concept of slope to parallel and perpendicular lines.</u>		Worksheets
	7D	O			
	7D	O			
	7D	O			

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**FOURTH NINE WEEKS – Mar.19 – May 24, 2006-2007**

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Week Number Date	Competencies/ Objectives	*Level	Description of Competencies/Objectives/Skills	Competencies/Objectives/ Assessments (# and types)	Strategies/Resources
	District/State				
Week 30	4D	O	<u>Skills: Investigate and apply real number solutions to quadratic equations algebraically and graphically.</u>	Class work and tests.	Write and work examples on the board. Use the graphing calculators. Assign problems from the textbook.
	4D	O			
	4D	O			
	4D	O			
Week 31	4E	O	<u>Skills: Use convincing arguments to justify unfactorable polynomials. Use appropriate algebraic language to justify solutions and processes used in problem solving.</u>		Worksheets
	6F	O			
	6F	O			
	6F	O			

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	District/State				
Week 32	3B	O	<u>Skills: Graph and check linear equations in two variables.</u>	Class work and tests.	Write and work examples on the board. Use the graphing calculators. Assign problems from the textbook.
	2D	O	<u>Apply patterns to graphs and use appropriate technology.</u>		
	4B	O	<u>Add, subtract, multiply, and divide polynomials.</u>		
	6E	O	<u>Use scientific notation to solve problems.</u>		
Week 33	4A	O	<u>Skills: Classify polynomials and determine degree.</u>		Worksheets
	5E	O	<u>Use formulas to write equations of lines.</u>		
	5A	O	<u>Evaluate and apply formulas.</u>		
	5B	O	<u>Reinforce formulas experimentally to verify solutions.</u>		

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	District/State				
Week 34	4C  2A  2A 1C	O  O  O O	<u>Skills: Factor polynomials using algebraic methods and geometric models.</u> <u>Analyze relationships between two variables, identify domain and range, and determine whether a relation or function.</u>  <u>Demonstrate and apply properties of real numbers to algebraic expressions.</u>	Class work and tests.	Write and work examples on the board. Use the graphing calculator. Assign problems from the textbook.
Week 35	5C 5C 6A  6A	O O O  O	<u>Skills: Given a literal equation, solve for any variable of degree 1.</u> <u>Recognize and demonstrate the appropriate use of terms, symbols, and notations.</u>		Worksheets

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	District/State				
Week 36	3D	O	<u>Skills: Use algebraic and graphical methods to solve systems of linear equations.</u>	Class work and tests.	Write and work examples on the board. Use the graphing calculator. Assign problems from the textbook.
	2C	O	<u>Determine the rule that describes a pattern and determine the pattern given the rule.</u>		
	5A	O	<u>Evaluate and apply formulas.</u>		
	5E	O	<u>Use formulas to write equations of lines.</u>		