

Frank McClarin High School

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Algebra II 1st semester School year 2008 – 2009

Instructor: Carson Howard Phone number: 404-669-8080

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Conferences and tutorial: Monday – Friday 7:30 – 8:00 & 3:00 – 3:30

Textbook: McDougal Littell **Algebra 2 Applications, Equations and Graphs.** \$48.75

Course Focus

Students enrolled in Algebra II should be prepared to solve equations and inequalities, functions, and solving systems of equation, inequalities, matrices, and polynomials. The global emphasis will be to make applications and connections into other areas of learning and everyday problems that they will face.

Course Outline:

Chapter 1: Equations and Inequalities	2 ½ weeks
Chapter 2: Linear Equations and Functions	2 ½ weeks
Chapter 3: Systems of Linear Equations and Inequalities	2 ½ weeks
Chapter 5: Quadratic Functions	2 ½ weeks
Chapter 6: Polynomials and Polynomial Function	2 weeks

Objectives:

- 1) Simply and evaluate algebra expressions.
- 2) Apply the properties of the real number system to solving formulas for one variable.
- 3) Identify subset of the real number system and graph real numbers on the number line.
- 4) Identify and apply the properties of the real number systems to solve equations.
- 5) Solve equations containing the absolute value.
- 6) Identify, define, and state the domain and range, graph relations and functions, and evaluate $F(x)$ for a given x of the domain.
- 7) Identify and graph linear equations and inequalities.
- 8) Identify and apply the slope, and intercepts of a line. Write an equation for a line using various combinations of required information.
- 9) Solve systems of linear equations in two variables by graphing, and variety of methods of substitution and elimination.
- 10) Evaluate the determinant of a matrix.
- 11) Solving system of equations using matrices.

- 12) Add, subtract, multiply and divide polynomials.
- 13) Solving polynomials.
- 14) Evaluate nth roots of real numbers using both radicals and rational exponent notation.
- 15) Use properties of rational exponents to evaluate and simplify expression
- 16) Solve equations that contain radicals or rational exponents.

Class Rules:

- 1) Be on time.
- 2) Be respectful of others, yourself and your teacher.
- 3) Be prepared
- 4) Listen attentively and follow directions.
- 5) Complete all assignments on time.

Grading Procedures:

Test	10%
Classwork / (Practice Problems)	20%
Homework / Notebook	15%
Class Participation	20%
Project	20 %
Final exam	15%

Grading scales:	90 – 100	A
	80 – 89	B
	70 – 79	C
	Below 70	Failure

Plato students must complete all work in Plato lab, then take the final exam in Room 203

Students may receive recovery Tuesday and Thursday from 3:00 – 3:45

The teacher has the right to adjust the course to meet the individual needs of all students.

Algebra II 1st semester Dailey Pacing Chart

Day 1 Meet students	Day 2 QCC: 1, 3 How can you graph and order real number? Read pages: 3 – 8 Do problems:2-50 even	Day 3 QCC: 1,2,3 Can you evaluate and simplify expression? Read pages: 11 – 16 Do problems 2-50 even	Day 4 QCC:1,2,4,17,47 How do you solve linear equations? Read pages: 19 – 23 Do problems 4-42 even	Day 5 QCC: 1,4,33 How can you rewrite an equations, to solve? Read pages: 26 – 32 Do problems 4 - 34
Day 6 QCC: 1,4,33 How can you use algebra to solve real life Read pages: 33 – 40 Do problems 4 – 30	Day 7 QCC: 1,2,3,4,17,33,47 Quiz 1	Day 8 QCC: 1,2,4 How do you solve and graph inequalities. Read pages: 41 - 45 Do problems 2 - 36	Day 9QCC: 1,4,5,15 How do you solve compound inequalities? Read pages 43 – 45 Do problems 37 – 52 all	Day 10 QCC: 1,4,5,15 How do you solve and grade absolute value? Read pages: 50 – 56 Do problems:4-46 even
Day 11 QCC: 1,2,3,4,5,15,17,33,47 Students review with classmates, and complete all assignment	Day 12 QCC: 1,2,3,4,5,15,17,33,47 Chapter 1 test	Day 13 QCC: 1,6,7,8 What is a function? Read pages: 67 – 74 Do problems: 2 - 54	Day 14 QCC: 1,6 Find slope? Read pages 75 – 81 Do problems 2 - 50	Day 15 QCC: 1,2,6 How do you graph linear equation? Read pages 82 - 88 Do problems 4-52even
Day 16 QCC:1,6,19, 35 How do you write the equation of a line? Read pages 91 -97 Do problems 2-48even	Day 17 QCC: 1,6,19,35 How do you write the equation of a line? Read pages 91-97 Do problems 36-54even	Day 18 QCC: 1,6,19,35 Can you determine what correlation points? Read pages 100 – 105 Do problems 4-28even	Day 19 QCC: 1,2,6,7,8,19,35 Quiz 2	Day 20 QCC:1,6,47,49 How do you graph a linear inequality? Read pages 108 – 113 Do problems 4-40even
Day 21 QCC: 1 What is a piecewise function? Read pages 114 – 120 Do problems 4-36even	Day 22 QCC:1,2,8 What is the vertex? Read pages 122-127 Do problems 2-36even	Day 23 QCC: 1,2,8 How do you graph the absolute value function Read pages 122 -127 Do problems 30-52even	Day 24 QCC: 1,2,6,7,8,19,35,47,49 Students review and complete all assignment.	Day 25 QCC: 1,2,6,7,8,19,35,47,49 Chapter 2
Day 26 QCC:1,2,11,12 How do you solve system of equations? Read pages 139 -145 Do problems 4-20	Day 27 QCC: 1,12,14 How does graphing help in solving systems? Read pages 139-145 Do problems 22-54even	Day 28 QCC:1,13,15 How can you solve using substitution? Read pages 148 – 153 Do problems 4-22even	Day 29 QCC: 1,2,13 How do you solve using elimination? Read pages 148 -153 Do problems 24-50even	Day 30 QCC:1,15 How do you determine which method is best? Read pages 154 -155 Do problems 1-19all
Day 31 QCC:1,2 How do solve systems with inequalities? Read pages 156 – 162 Do problems 4-44even	Day 32 QCC:1,2,11,12,13,14,15 Quiz 3	Day 33 QCC: 1,2,15 How do you solve linear programming? Read pages 163 – 169 Do problems 2-26even	Day 34 QCC: 1,2,15 How can linear pro.solve real world? Read pages 163 – 169 Do problems 28-50even	Day 35 QCC: 1,2 How do you graph with 3 variables? Read pages 170 – 175 Do problems 4-24even
Day 36 QCC:1,11,12 How do you solve with 3 variables? Read pages 177 – 183 Do problems 6-28even	Day 37 QCC: 1,2,11,12,13,14,15 Students review and complete all assignment	Day 38 QCC: 1,2,11,12,13,14,15 Chapter 3 Test	Day 39 QCC:1,28,29 How do you graph a function? Read pages 249 – 255 Do problems 4-28even	Day 40 QCC:1,26,29 How do you factor binomials? Read pages 256 -263 Do problems4-30even
Day 41 QCC: 1,2,21 How do you factor trinomials? Read pages 256 - 263 Do problems: 32-60ev	Day 42 QCC: 1,2,29 How do you complete the square? Read pages 264 – 269 Do problems 4-32even	Day 43 QCC: 1,2,21,26,28,29 Quiz 4	Day 44 QCC: 1,24,25 What are complex numbers? Read pages 272 – 280 Do problems 4-46even	Day 45 QCC: 1,2,26,29 How do you solve by completing the square. Read pages 282 -289 Do problems 4-46even
Day 46 QCC:1,26,27 How do you solve using quadratic formula Read pages 291 296 Do problems 4-34even	Day 47QCC: 1,2,21,24,25,26,28,29 Students review and complete all assignment	Day 48 QCC: 1,2,21,24,25,26,28,29 Chapter 5 Test	Day 49 QCC: 1,3,16,17 How do evaluate with exponents? Read pages 323 – 328 Do problems 4-40even	Day 50 QCC: 1,2 How do you graph a polynomial function? Read pages 329 – 335 Do problems 4-42even
Day 51 QCC: 1 How do you add and subtract polynomial? Read pages 338 – 343 Do problems 4-34even	Day 52 QCC: 1,31 How do you multiply and divide polynomial? Read pages 338 -343 Do problems 36-62even	Day 53 QCC: 1,17,30 How can you solve polynomials? Read pages 345 – 350 Do problems 6-40even	Day 54 QCC: 1,2,3,16,17,30,31 Quiz 5	Day 55 QCC: 1,31 What is a real root of a polynomials? Read pages 352 – 357 Do problems 4-52even
Day 56 QCC: 1,2,31 How do you determine the number of roots? Read pages 359 – 365 Do problems 4-52even	Day 57 QCC: 1,2,32 How do use polynomials for real life Read pages 366 – 370 Do problems 4-52even	Day 58 QCC: 1,2,3,16,17,30,31,32 Chapter 6 Test	Day 59 Review chapters 1,2,3,5,6,	Day 60 Final exam