



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



Semester 1 2011 –2012

Department: Special Education

Course: Anchor Algebra 2 Instructor(s): Kapchinske

This course is aligned to: **College Readiness Standards and/or College Board Standards** Other:

*The Homewood-Flossmoor High School Course Scope & Sequence provides parents and students with a semester-long overview of each class that we offer. **An instructor may alter a course's scope & sequence as needed.** Students are responsible for keeping track of due dates and other pertinent course information in their H-F Student Planners. Parents, please contact your child's teacher by telephone or e-mail to clarify any questions you may have about the scope & sequence of a particular course.*

WEEK	COLLEGE READINESS AND/OR COLLEGE BOARD CONTENT STANDARDS	INSTRUCTIONAL CONTENT	ACTIVITIES, READINGS, LABS, AND/OR ASSIGNMENTS	MAJOR ASSESSMENTS	OTHER
WEEK #1 8/15 – 8/19 No Classes: 8/15 & 8/16		Reviewing school & classroom rules, supplies needed & textbook, and overview of Algebra two.	Algebra one review packet.	None	None
WEEK #2 8/22 – 8/26	<u>M.IV.c.2:</u> Add and subtract simple algebraic expressions.	Review of real Numbers.	1.1 Introduction to Real Numbers: Warm-up problems, Terms to know worksheet, and notes. Book pages 2 – 10, exercise problems even numbered 2 through 20 and 50 – 60. 1.2 Operations on Rational Numbers: Warm-up problems, Terms to know worksheet, and notes. Book pages 14 – 27, exercise problems even numbered 2 through 10, 44 – 52, 76 – 84, and 98 – 106.	Quizzes 1.1 and 1.2	None
WEEK #3 8/29 – 9/2	<u>M.IV.c.1:</u> Evaluate algebraic expressions by substituting integers for unknown quantities.	Continue Review of Real Numbers.	1.3 Variable Expressions: Warm-up problems, Terms to know worksheet, and notes. Book pages 28 – 36, exercise problems even numbered 2 – 40 and 72 – 90. 1.4 Verbal Expressions and Variable Expressions: Warm-up problems, Terms to know worksheet, and notes. Book pages 36 – 41, exercise problems even numbered 2 through 16. Projects & Group Activities: Water displacement. Chapter 1 summary and review.	Quizzes 1.3 and 1.4.	None



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #4 9/5 – 9/9 No school: 9/5	<u>M.IV.c.2:</u> Add subtract simple algebraic expressions.	Introduction to First-Degree Equations and Inequalities.	2.1 Equations in One Variable: Warm-up problems, Terms to know worksheet, and notes. Book pages 54 – 64, exercise problems even numbered 2 through 20 and 50 - 68.	Quiz 2.1	None
WEEK #5 9/12 – 9/16	<u>M.I.e.1:</u> Solve word problems containing several rates, proportions, or percentages.	Continue First-Degree Equations and Inequalities.	2.2 Coin, Stamp, and Integer Word Problems: Warm-up problems, Terms to know worksheet, and notes. Book pages 64 – 71, exercise problems even numbered 2 through 8 and 16 – 22.	Quiz 2.2	None
WEEK #6 9/19 – 9/23	<u>M.I.e.1:</u> Solve word problems containing several rates, proportions, or percentages.	Continue First-Degree Equations and Inequalities.	2.3 Value Mixture and Motion Word Problems: Warm-up problems, Terms to know worksheet, and notes. Book pages 71 – 81, exercise problems even numbered 2 through 8 and 16 – 22.	Quiz 2.3	None
WEEK #7 9/26 – 9/30	<u>M.IV.d.6:</u> Solve first-degree inequalities that do not require reversing the inequality sign.	Continue First-Degree Equations and Inequalities.	2.5 Inequalities in One Variable: Warm-up problems, Terms to know worksheet, and notes. Book pages 90 – 100, exercise problems even numbered 2 through 20 and 24 – 32.	Quiz 2.5	None
WEEK #8 10/3 – 10/7	<u>M.IV.d.6:</u> Solve first-degree inequalities that do not require reversing the inequality sign.	Conclude First-Degree Equations and Inequalities.	2.6 Absolute Value Equations and Inequalities: Warm-up problems, Terms to know worksheet, and notes. Book pages 101 – 108, exercise problems even numbered 2 through 20 and 52 –70. Focus on Problem Solving activity. Chapter 2 summary and review.	Quiz 2.6 and chapter 2 test.	None
WEEK #9 10/10 –10/14 No school: 10/10 All School Testing: 10/12	<u>M.V.c.1:</u> Locate points on the coordinate plane.	Introduction to Linear Functions and Inequalities in Two Variables.	3.1 The Rectangular Coordinate System: Warm-up problems, Terms to know worksheet, and notes. Book pages 124 – 138, exercise problems even numbered 2 through 28.	Quiz 3.1	None
WEEK #10 10/17 –10/21 End of Quarter: 10/21		Continue Linear Functions and Inequalities in Two Variables.	3.2 Introduction to Functions: Warm-up problems, Terms to know worksheet, and notes. Book pages 139 – 151, exercise problems even numbered 2 through 16, 22 – 44 and 58 – 66.	Quiz 3.2	None



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #11 10/24 – 10/28	<u>M.I.d.1:</u> Solve multi-step arithmetic problems.	Continue Linear Functions and Inequalities in Two Variables.	3.3 Solving Equations with Variables on Both sides: Warm-up problems, Terms to know worksheet, and notes. Book pages 151 – 163, exercise problems even numbered 2 through 30. Using a graphing calculator graph linear equations activity.	Quiz 3.3	None
WEEK #12 10/31 – 11/4 Parent/teacher Conferences: 11/3 No Classes: 11/4	<u>M.V.d.2:</u> Determine the slope of a line from points or equations.	Continue Linear Functions and Inequalities in Two Variables.	3.4 Slope of a Straight Line: Warm-up problems, Terms to know worksheet, and notes. Book pages 163 – 173, exercise problems even numbered 2 through 20 and 30 – 38. Using a graphing calculator to graph and find the slope of a straight line.	Quiz 3.4	None
WEEK #13 11/7 – 11/11 No school: 11/11	<u>M.V.d.2:</u> Determine the slope of a line from points or equations.	Continue Linear Functions and Inequalities in Two Variables.	3.5 Finding Equations of Lines: Warm-up problems, Terms to know worksheet, and notes. Book pages 173 – 180, exercise problems even numbered 2 through 20 and 28 – 36.	Quiz 3.5	None
WEEK #14 11/14 – 11/18	<u>M.V.e.4:</u> Use properties of parallel and perpendicular lines to determine an equation of a line or coordinates of a point.	Continue Linear Functions and Inequalities in Two Variables.	3.6 Parallel and Perpendicular Lines: Warm-up problems, Investigating slopes of parallel and perpendicular lines using a graphing calculator activity, Terms to know worksheet, and notes. Book pages 180 – 186, exercise problems even numbered 2 through 30.	Quiz 3.6	None
WEEK #15 11/21 – 11/25 No school: 11/24 & 11/25	<u>M.IV.e.6:</u> Find solutions to systems of linear equations.	Conclude Linear Functions and Inequalities in Two Variables.	3.7 Inequalities in Two Variables: Warm-up problems, Using a graphing calculator to graph the solution set of an inequality in two variables activity, Terms to know worksheet, and notes. Book pages 186 – 190, exercise problems even numbered 2 through 24. Chapter 3 summary and review.	Quiz 3.7 and Chapter 3 test	None
WEEK #16 11/28 – 12/2	<u>M.IV.e.6:</u> Find solutions to systems of linear equations.	Introduction to Systems of Equations and Inequalities.	4.1 Solving Systems of Linear Equations by Graphing and by the Substitution Method: Warm-up problems, Using a graphing calculator to solve a system of equations activity, Terms to know worksheet, and notes. Book pages 206 – 214, exercise problems even numbered 2 through 20 and 30 – 38.	Quiz 4.1	None



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #17 12/5 – 12/9	<u>M.IV.e.6:</u> Find solutions to systems of linear equations.	Continue Systems of Equations and Inequalities.	4.2 Solving Systems of Linear Equations by the Addition Method: Warm-up problems, Terms to know worksheet, and notes. Book pages 214 – 223, exercise problems even numbered 2 through 20 and 40 – 48.	Quiz 5.2	None
WEEK #18 12/12 – 12/16	<u>M.IV.e.6:</u> Find solutions to systems of linear equations.	Continue Systems of Equations and Inequalities.	4.3 Solving systems of Equations by Using Determinants and by Using Matrices: Warm-up problems, Terms to know worksheet, and notes. Book pages 224 – 240, exercise problems even numbered 2 through 28.		None
WEEK #19 12/19 – 12/21	<u>M.IV.e.6:</u> Find solutions to systems of linear equations.	Continue Systems of Equations and Inequalities.	4.3 Solving systems of Equations by Using Determinants and by Using Matrices: Warm-up problems, Terms to know worksheet, and notes. Book pages 224 – 240, exercise problems even numbered 2 through 28.	Quiz 5.3	None
WEEK #20 1/4 – 1/6		First semester final review.	First Semester Final Review Packet.	Final Exams	None
WEEK #21 1/9 – 1/13 Finals: 1/9 – 1/11 Marking Day (No Classes) 1/12 INSTITUTE/PLC Day (No Classes) 1/13		First Semester Final Exams		None	None



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



Semester 2 2011 – 2012

Department: Special Education

Course: Cross-Cat. Algebra 2

Instructor(s):

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WEEK #1 1/16 – 1/20 No school: 1/16	<u>M.IV.e.6:</u> Find solutions to systems of linear equations.	Conclude Systems of Equations and Inequalities.	4.5 Solving systems of Linear Equation: Warm-up problems, Using a graphing calculator to solve a system of linear inequalities activity, Terms to know worksheet, and notes. Book pages 251 – 254, exercise problems even numbered 2 through 22. Chapter 4 summary and review.	Quiz 4.5 and chapter 4 test.	None
WEEK #2 1/23 – 1/27	<u>M.III.d.6:</u> Work problems involving positive integer exponents.	Introduction to Polynomials and Exponents.	5.1 Exponential Expressions: Warm-up problems, Terms to know worksheet, and notes. Book pages 270 – 282, exercise problems even numbered 2 through 20 and 42 – 60.	Quiz 5.1	None
WEEK #3 1/30 – 2/3	<u>M.IV.d.4:</u> Add, subtract, multiply, and divide polynomials.	Continue Polynomials and Exponents.	5.2 Introduction to Polynomials: Warm-up problems, Terms to know worksheet, and notes. Book pages 282 – 293, exercise problems even numbered 2 through 8 and 16 – 46.	Quiz 5.2	None
WEEK #4 2/6 – 2/10	<u>M.IV.d.4:</u> Add, subtract, multiply, and divide polynomials.	Continue Polynomials and Exponents.	5.3 Multiplication of Polynomials: Warm-up problems, Terms to know worksheet, and notes. Book pages 293 – 300, exercise problems even numbered 2 through 20, 32 – 40, and 68 – 76.	Quiz 5.3	None



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #5 2/13 – 2/17	<u>M.IV.d.4:</u> Add, subtract, multiply, and divide polynomials.	Continue Polynomials and Exponents.	5.4 Division of Polynomials: Warm-up problems, Terms to know worksheet, and notes. Book pages 300 – 307, exercise problems even numbered 2 through 20, 28 – 36, and 56 – 64.	Quiz 5.4	None
WEEK #6 2/20 – 2/24 No school: 2/20	<u>M.IV.d.5:</u> Factor simple quadratics.	Continue Polynomials and Exponents.	5.5 Factoring Polynomials: Warm-up problems, Terms to know worksheet, and notes. Book pages 308 – 319, exercise problems even numbered 2 through 20, 52 – 60, and 78 – 86.	Quiz 5.5	None
WEEK #7 2/27 – 3/2	<u>M.IV.d.5:</u> Factor simple quadratics.	Continue Polynomials and Exponents.	5.7 Solving Equations by Factoring: Warm-up problems, Terms to know worksheet, and notes. Book pages 327 – 332, exercise problems even numbered 2 through 30.	Quiz 5.7	None
WEEK #8 3/5 – 3/9 No school: 3/5	<u>M.IV.e.6:</u> Find solutions to systems of linear equations.	Conclude Polynomials and Exponents. Introduction to Rational Expressions.	Chapter 5 summary and review. 6.1 Solving Systems of Linear Inequalities: Warm-up problems, Terms to know worksheet, and notes. Book pages 348 – 354, exercise problems even numbered 2 through 20 and 40 – 58.	Chapter 5 test Quiz 6.1	None
WEEK #9 3/12 – 3/16	<u>M.III.e.4:</u> Apply rules of exponents.	Conclude Rational Expressions.	6.2 Zero and Negative Exponents: Warm-up problems, Terms to know worksheet, and notes. Book pages 356 – 365, exercise problems even numbered 2 through 20 and 40 – 48.	Quiz 6.2.	None
WEEK #10 3/19 – 3/23 End of Quarter: 3/23	<u>M.III.e.4:</u> Apply rules of exponents.	Introduction to Rational Exponents and Radicals.	7.1 Rational Exponents and Radical Expressions: Warm-up problems, Terms to know worksheet, and notes. Book pages 310 – 419, exercise problems even numbered 2 through 20, 84 – 92 and 114 – 122.	Quiz 7.1	None
WEEK #11 4/2 – 4/6	<u>M.III.d.9:</u> Exhibit some knowledge of complex numbers.	Continue Rational Exponents and Radicals.	7.2 Operations on Radical Expressions: Warm-up problems, Terms to know worksheet, and notes. Book pages 419 – 428, exercise problems even numbered 2 through 10, 24 – 32, 58 – 66 and 96 – 104.	Quiz 7.2	None



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #12 4/9 – 4/13	<u>M.III.d.9:</u> Exhibit some knowledge of complex numbers.	Conclude Rational Exponents and Radicals.	7.4 Solving Equations Containing Radical Expressions: Warm-up problems, Terms to know worksheet, and notes. Book pages 433 – 440, exercise problems even numbered 2 through 30. Projects & Group activities: Solving radical equations with a graphing calculator. Chapter 7 summary and review.	Quiz 7.4 and chapter 7 test.	None
WEEK #13 4/16- 4/20 No school: 4/22	<u>M.IV.e.5:</u> Solve quadratic equations.	Introduction to Quadratic Equations and Inequalities.	8.1 Solving Quadratic Equations by Factoring or by Taking Square Roots: Warm-up problems, Terms to know worksheet, and notes. Book pages 464 – 471, exercise problems even numbered 2 through 20, 48 – 56, and 78 – 86. Group activities: Using a graphing calculator to solve a quadratic equation.	Quiz 8.1	None
WEEK #14 4/23 – 4/27 PSAE: 4/24 & 4/25	<u>M.IV.e.5:</u> Solve quadratic equations.	Continue Quadratic Equations and Inequalities.	8.2 Solving Quadratic Equations by completing the Square and by Using the Quadratic Formula: Warm-up problems, Terms to know worksheet, and notes. Book pages 471 – 484, exercise problems even numbered 2 through 20, 62 – 70, and 74 – 82.	Quiz 8.2	None
WEEK #15 4/30 – 5/4	<u>M.IV.e.5:</u> Solve quadratic equations.	Continue Quadratic Equations and Inequalities.	8.3 Equations That Are Reducible to Quadratic Equations: Warm-up problems, Terms to know worksheet, and notes. Book pages 484 – 490, exercise problems even numbered 2 through 20, 28 – 36, and 46 – 54.	Quiz 8.3	None
WEEK #16 5/7 – 5/11	<u>M.IV.e.5:</u> Solve quadratic equations.	Continue Quadratic Equations and Inequalities.	8.5 Nonlinear Inequalities: Warm-up problems, Terms to know worksheet, and notes. Book pages 496 – 500, exercise problems even numbered 2 through 30.	Quiz 8.5	None
WEEK #17 5/14 – 5/18	<u>M.IV.e.5:</u> Solve quadratic equations.	Conclude Quadratic Equations and Inequalities.	8.6 Properties of Quadratic Functions: Warm-up problems, Terms to know worksheet, and notes. Book pages 501 – 514, exercise problems even numbered 2 through 20, 26 – 34, and 38 – 46.	Quiz 8.6 and chapter 8 test.	None



HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



WEEK #18 5/21 – 5/25 Last day for seniors: 5/24		Introduction to Applications of Quadratic Functions Second semester review.	8.7 Applications of Quadratic Functions: Warm-up problems, Terms to know worksheet, and notes. Book pages 514 – 526, exercise problems even numbered 2 through 20, 26 – 34, and 38 – 46. Second Semester Final Review Packet	Quiz 8.7	None
WEEK #19 5/28– 6/1 No school: 5/28 Final Exams: 5/29 – 5/31 Marking Day: 6/1		Final Exams			