BERTHA-HEWITT HIGH SCHOOL

Curriculum Map

2014-15

Steve Riewer -- Instructor

Academic Standard Area: Math Course Title/Strand: Advanced Algebra Grade Level: 10-12

Textbook & Copyright: McDougal Littell Advanced Algebra 2 2007

CONTENT/UNIT/SUB-STRAND	PROCESS/ACTIVITY/STANDARD	ASSESSMENT
Chapter 1 Equations and	Apply Properties of Real Numbers	
Inequalities	Evaluate and Simplify Algebraic Expressions	Chapter Test Date
	Solve Linear Equations	
	Rewrite Formulas and Equations	September 9, 2014
	Use Problem Solving Strategies and Models	
	Solve Linear Inequalities	
	Solve Absolute Vale Equations and Inequalities	
Chapter 2 Linear Equations and	Represent Relations and Functions	
Functions	Find Slope and Rate of Change	Chapter Test Date
	Graph and Write Equations of Lines	
	Model Direct Variation	October 29, 2014
	Draw Scatter Plots and Best-Fitting Lines	
	Use Absolute Value Functions and Transformations	
	Graph Linear Inequalities in Two Variables	
Chapter 3 Linear Systems and	Solve Linear Systems by Graphing	Chapter Test Date
Matrices	Solve Linear Systems Algebraically	
	Graph Systems of Linear Inequalities	December 5, 2014
	Solve Systems of Linear Inequalities in Three Variables	
	Perform Basic Matrix Operations	
	Multiply Matrices	
	Evaluate Determinant and Apply Cramer's Rule	
	Use Inverse Matrices to Solve Linear Systems	
Chapter 4 Quadratic Functions	Graph Quadratic Functions in Standard Form	Chapter Test Date
and Factoring	Graph Quadratic Functions in Vertex or Intercept Form	7.1 7.0017
	Solve $x^2 + bx + c = 0$ by Factoring	February 5, 2015
	Solve $ax^2 + bx + c = 0$ by Factoring	
	Solve Quadratic Equations by Finding Square Roots	
Class 5 D. Land	Perform Operations with Complex Numbers	
	Complete the Square	
	Use the Quadratic Formula and the Discriminant	
	Graph and Solve Quadratic Inequalities Write Quadratic Functions and Models	
	Use Properties of Exponents	
Chapter 5 - Polynomials and Polynomial Functions	Evaluate and Graph Polynomial Functions	Chapter Test Date
Polynomiai Functions	Add, Subtract, and Multiply Polynomials	Chapter Test Date
	Factor and Solve Polynomial Equations	March 17, 2015
	Apply the Remainder and Factor Theorems	Water 17, 2013
	Find Rational Zeros	
	Apply the Fundamental Theorem of Algebra	
	Analyze Graphs of Polynomial Functions	
	Write Polynomial Functions and Models	
Chapter 6 - Rational	Evaluate nth Roots and Use Rational Exponents	Chapter Test Date
Exponents and Radical	Apply Properties of Rational Exponents	Chapter Test Bate
Functions	Perform Function Operations and Composition	April 22, 2015
	Use Inverse Functions	,
	Graph Square Root and Cube Root Functions	
	Sole Radical Equations	
Chapter 7 – Exponential and	Graph Exponential Growth and Decay Functions	Chapter Test Date
Logarithmic Functions	Use Functions Involving e	*
	Evaluate Logarithms and Graph Logarithmic Functions	May 21, 2015
	Apply Properties of Logarithms	
	Solve Exponential and Logarithmic Equations	
	Write and Apply Exponential and Power Functions	

Advanced Algebra III/IV	For 2014-15 We began with Chapter 9 since this group had finished through Chapter 8 in the previous year.	
Chapter 8 – Rational Functions	Model Inverse and Joint Variation Graph Simple Rational Functions	Chapter Test Date
	Graph General Rational Functions Multiply, Divide, Add, and Subtract Rational Expressions Solve Rational Equations	Previous year
Chapter 9 - Quadratic	Apply the Distance and Midpoint Formulas	Chapter Test Date
Relations and Conic Sections	Graph and Write Equations of Parabolas, Circles, Ellipses, and Hyperbolas	October 3, 2014
	Translate and Classify Conic Sections Solve Quadratic Systems	
Chapter 10 – Counting Methods and Probability	Apply the Counting Principle and Permutations Use Combinations and the Binomial Theorem	Chapter Test Date
	Define and Use Probability Find Probabilities of Disjoint and Overlapping Events Find Probabilities of Independent and Dependent Events	November 14, 2014
	Construct and Interpret Binomial Distributions	Cl
Chapter 11 – Date Analysis and Statistics	Find Measures of Central Tendency and Dispersion Apply Transformations to Data	Chapter Test date
Statistics	Use Normal Distributions Select and Draw Conclusions from Samples	December 4, 2014
	Choose the Best Model for Two-Variable Data	
Chapter 12 – Sequences and	Define and Use Sequences and Series	Chapter Test Date
Series	Analyze Arithmetic and Geometric Sequences and Series Find Sums of Infinite Geometric Series Use Recursive Rules with Sequences and Functions	December 19, 2014
Chapter 13 – Trigonometric	Use Trigonometry with Right Triangles	Chapter Test Date
Ratios and Functions	Define General Angles and Use Radian Measure	
	Evaluate Trigonometric Functions of Any Angle Evaluate Inverse Trigonometric Functions	February 11, 2015
Chapter 14 – Trigonometric	Apply the Law of Signs and the Law of Cosines Graph Sine, Cosine, and Tangent Functions	Chapter Test Date
Graphs, Identities, and	Translate and Reflect Trigonometric Graphs	Chapter Test Bate
Equations	Verify Trigonometric Identities Solve Trigonometric Equations	March 17, 2015
	Write Trigonometric Functions and Models	
	Apply Sum and Difference Formulas	
	Apply Double-Angle and Half-Angle Formulas	
FST Text	Tables and Graphs, Stemplots, Dotplots, Measures of Center	Chapter Test Date
Chapter 1 Exploring Data	and Dispersion, Quartiles, Percentiles and Box Plots	April 22, 2015
Exploring Data FST Text	Linear, Exponential, Quadratic and Power Models using	April 22, 2015 Chapter Test Date
Chapter 2	Regression Analysis	Chapter Test Date
Functions and Models	- G	May 20, 2015