

CURRICULUM MAPPING

COURSE: A.P. Calculus

INSTRUCTOR: Breneman, Pickert & Moroz

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Data Algebra Geometry	Data Algebra Geometry	Algebra Technology	Algebra Technology	Algebra
CONTENT	Graphs Calculator Skills Limits Continuity	Graphs Calculator Skills Limits Continuity	Derivative: Definition Slope Rate of Change	Extreme Values Mean Value	Derivatives and their Applications
SKILLS	Equation of a Line Regression Analysis	Equation of a Line Regression Analysis	Derivative Rules	Identify Local or Global Max/Min Solve Related Rates Problems	Derivative Rules
ASSESSMENT	Chapter Quizzes Chapter Tests Class Notes	Chapter Quizzes Chapter Tests Class Notes	Chapter Quizzes Chapter Tests Class Notes	Chapter Quizzes Chapter Tests Class Notes	Chapter Quizzes Chapter Tests Class Notes

NOTES: Map completed on 4/23/03

CURRICULUM MAPPING

COURSE: A.P. Calculus

INSTRUCTOR: Breneman, Pickert & Moroz

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Algebra Technology Geometry	Algebra Technology Geometry	Algebra Geometry Technology	Algebra Geometry Technology	Algebra Geometry Technology
CONTENT	Riemann Sums Integration Trapezoid Rule Fundamental Theorem of Calculus	Antiderivatives Slope Fields Growth/Decay	Volume Areas	Volume Areas	Review of Entire Course
SKILLS	Integration Rules Areas Under Curves	Solving Differential Equations Apply Slope Fields Solve Antiderivatives	Compute areas between Curves Find volumes of revolution with known cross sections	Compute areas between Curves Find volumes of revolution with known cross sections	For AP Exam, and/or Final Exam
ASSESSMENT	Chapter Quizzes Chapter Tests Class Notes	Chapter Quizzes Chapter Tests Class Notes	Chapter Quizzes Chapter Tests Class Notes	Chapter Quizzes Chapter Tests Class Notes	Chapter Quizzes Chapter Tests Class Notes

NOTES: Map completed 4/23/03

CURRICULUM MAPPING

COURSE: Algebra II

INSTRUCTOR: Laciak, Seymour & Valiska

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Arithmetic Algebra Data Geometry	Arithmetic Algebra Data Geometry	Algebra Arithmetic Geometry	Algebra Arithmetic	Algebra Arithmetic Geometry
CONTENT	Data Graphs Use on equation or formula Use a metric – real number properties Use probability – rational & irrational numbers Use statistics – equality, Inequality absolute value Use a graph – scientific Solve Problems with notation	Data Graphs Use on equation or formula Use a metric – real number properties Use probability – rational & Irrational numbers Use statistics – equality, Inequality absolute value Use a graph – scientific Solve Problems with Notation	Symmetry & functions Independent & Dependent variables Linear Functions Inverses Systems of Equations	3 variables systems Matrix multiplication Properties of exponents Factoring GCF	Completing the Square Graph quadratic Functions Quadratic formula
SKILLS	Using operations on matrices Calculate the likelihood of Events using probability Finding values of information About statistics Using equations & Formulas Learning properties of real Numbers Interpreting data & graphs	Using operations on matrices Calculate the likelihood of Events using probability Finding values of information About statistics Using equations & Formulas Learning properties of real Numbers Interpreting data & graphs	Use function notation Identify linear functions Identify the effects of transformations in absolute value graphs Solve systems	Solving systems – 3 variables Multiplying matrices Solving polynomial equations by factoring	Complete the Square Solve quadratic equations using the quadratic formula
ASSESSMENT	Quizzes Tests Notes Projects	Quizzes Tests Notes Projects	Quizzes Tests Notes Projects	Quizzes Tests Notes Projects	Quizzes Tests Notes Projects

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Algebra II

INSTRUCTOR: Laciak, Seymour & Valiska

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Algebra Arithmetic Geometry	Algebra Arithmetic	Algebra Arithmetic Geometry	Algebra Arithmetic Geometry Measurement	Algebra Arithmetic Geometry Data Measurement
CONTENT	Inequalities Objective Function Exponents & Radicals	Radical Equations Complex Numbers Exponential Form Logarithmic Form	Synthetic division Remainder & factor theorems Divide polynomials Operations with rational expressions LCD	Distance & midpoint Circle Ellipse	Hyperbolas Parabolas Identify conics Sequences Series
SKILLS	Solving & Graphing Inequalities Simplify exponents & radicals	<u>Solving</u> Radical Equations and solving complex equations and solving logarithmic equations	Solve for possible roots Simplify, multiply, dividing, adding, subtracting rational functions	Using the distance & midpoint formulas Recognize circles & ellipses	Recognize hyperbolas & parabolas Identify conics Recognize and solve for terms in arithmetic & geometric series
ASSESSMENT	Quizzes Tests Notes Projects	Quizzes Tests Notes Projects	Quizzes Tests Notes Projects	Quizzes Tests Notes Projects	Quizzes Tests Notes Projects

NOTES: Map created by 4/23/03

CURRICULUM MAPPING

COURSE: Algebra Freshmen

INSTRUCTOR: Groenendal/Laciak

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Data	Arithmetic Algebra	Algebra Geometry?	Algebra	Algebra Geometry
CONTENT	Data: Graphs	*Variables *Real #'s *Linear Equations	*Variables *Formulas *Coordinate Plane	*Inequalities *Slope of a line	*Slope-intercept form & other forms *Scatter Plots
SKILLS	*Read interpret & predict data *Variables *Matrices *Proportions *Survey & Sampling	*Order of operation *Distributive prop. *Solve basic variable equations	*Solve complex equations *Manipulate equations *Plot ordered pairs *Identify functions	*Solve & graph inequalities *Determine slope of a line	*Graph lines *parallel & perpendicular lines *Best fit lines *Recognize & change from one line form to another
ASSESSMENT	*Chapter quizzes *Chapter test Class notes	*Chapter quizzes *Chapter test Class notes	*Chapter quizzes *Chapter test Class notes	*Chapter quizzes *Chapter test Class notes	*Chapter quizzes *Chapter test Class notes

NOTES: (See notes on next page)

CURRICULUM MAPPING

COURSE: Algebra Freshmen

INSTRUCTOR: Groenendal/Laciak

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Algebra Arithmetic	Algebra	Arithmetic Algebra	Algebra Measurement	Algebra Data
CONTENT	Linear systems	Linear inequalities Absolute value	*Real # system *Quadrations Equation & Formula	Polynomials & Exponents	Polynomials & Factoring Rational expressions
SKILLS	*Solve linear systems by: *graphing *substitution *elimination	*graphing inequalities *graph translations *solve & graph absolute value equations	*Identify subset of real #'s *Translations of quadratic graphs *solve quadratic equations (graphing, sq root, formula)	*Scientific notation *+, -, x, ÷, of polynomials *foil *recognize like terms	*Factoring patterns *Factoring polynomials & solve
ASSESSMENT	Chapter quizzes Chapter test Class notes	Chapter quizzes Chapter test Class notes	Chapter quizzes Chapter test Class notes	Chapter quizzes Chapter test Class notes	Chapter quizzes Chapter test Class notes

NOTES: 3-4 days per week of daily warm-ups to prep for standardized test (about 5-10 minutes)

CURRICULUM MAPPING

COURSE: Algebra Upperclassmen

INSTRUCTOR: Maday

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Data Arithmetic	Data Algebra	Algebra Arithmetic	Algebra Data	Algebra Arithmetic
CONTENT	*Data *Graphs *Matrices *Signed Numbers *Central Tendency Measures	*Scatter plots *coordinate plane *probability *counting principle	*quantities, variables, constants *variation (dir/ind.) *expressions	* linear equations *data tables *graphing *functions	*linear equations *graphing *multiple approaches
SKILLS	*interpret graphs *operate w/ signed numbers *matrix operations *find mean, median, mode *matrices, central tendency on '83	*scatter plot construction *data association ID *pts, coordinates, quadrants *find probabilities *combinations permutations *scatter plots on '83	*ID quantities, variables constants *ID dir/ind. variations *write/simplify alg. expression *simplify numerical expressions *evaluate alg. expr.	*write equations *form data tables *graph linear relat. *ID functions *ID linear functions *Linear regressions on '83	*solving equations informally *solving equations graphically ('83) *solving equations formally
ASSESSMENT	*quizzes *tests *notes *projects	*quizzes *tests *notes *projects	*quizzes *tests *notes *projects	*quizzes *tests *notes *projects	*quizzes *tests *notes *projects

NOTES: Standard test prep will occur on daily weekly or other schedule according To teacher's discretion.

CURRICULUM MAPPING

COURSE: Algebra Upperclassman

INSTRUCTOR: Maday

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Geometry Arithmetic Algebra	Algebra Arithmetic Data	Algebra	Arithmetic Algebra Geometry	Arithmetic Algebra
CONTENT	*similar figures *right Δ trig *slope/rate of change *graphing linear equations	*equations of lines *trend lines *dimensional analysis	*parallel and perpendicular lines *systems of linear equations	*number line distance *absolute value *square root *taxi distance *Pythagorean theorem	*scientific notation *polynomials *quadratic equas.
SKILLS	*ID similar figures *find dimensions of similar figures *form and use trig ratios *compute slope/rate change *graph using slope and y-intercepts	*write equations using m,b *form/use trend lines for prediction *lin. regress. on '83 *unit conversions	*write equations of lines *solve systems graphic ('83 and manually) *solve systems algebraic (subst. and lin. comb.)	*simplify abs. val. expr. *solve abs. val. open sent *evaluate square roots *solve square root equations *compute taxi distance *find missing side of right triangle	*interchange std./sci. notation *operate with poly. Expressions *factor poly. expressions *solve quad equations using quad Formula
ASSESSMENT	*quizzes *tests *projects *notes	*quizzes *tests *projects *notes	*quizzes *tests *projects *notes	*quizzes *tests *projects *notes	*quizzes *tests *projects *notes

NOTES: Standardized test prep will occur daily, weekly, or other according to individual instructor schedule preference

CURRICULUM MAPPING

COURSE: Col Algebra and Trig

INSTRUCTOR: Stritar/Hailey

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Algebra	Algebra	Algebra	Algebra Data	Algebra Data
CONTENT	Prerequisites: Exponents & Radicals Polynomials & Special Products Factoring Fractional Expressions	Prerequisites: Exponents & Radicals Polynomials & Special Products Factoring Fractional Expressions	Chapter 1 Graphs & Symmetry Solving Linear Equations Solving Quadratic Equa. Complex Numbers Solving equations quadratic in form. Solving Inequalities Solving Polynomial Inequalities Chapter 2 Lines on a plane & slope Functions	Chapter 2 Analyzing Graphs of Functions Inverse Functions Chapter 3 Graphs of Quadratics-degree 2 Quadratic graphs Degree 3 or higher Synthetic division Descartes role of Signs Rational Zero test Fundamental Theorem of Algebra	Chapter 4 Rational Functions & Asymptotes Graphs of Rational Functions
SKILLS	Understand and work with exponents and polynomials	Understand and work with exponents and polynomials	Be able to solve equations in any form	Understand how graphs are related to solving equations and finding solutions to quadratics	
ASSESSMENT	Quizzes Traditional Assessment	Quizzes Traditional Assessment	Quizzes Traditional Assessment	Quizzes Traditional Assessment	Quizzes Traditional Assessment

NOTES: Map completed on 4/25/03

CURRICULUM MAPPING

COURSE: Col Algebra & Trig

INSTRUCTOR: Stritar/Hailey

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Algebra	Algebra Data Measurement	Algebra Data	Algebra Data	
CONTENT	Chapter 4 Comics Chapter 5 Definition of Exponential Definition of Logarithm Properties of Logarithms	Chapter 5 Solving Exponential Equations Solving logarithmic equations Chapter 6 Angles Sohcahtoa & Inverses Trig Functions of any angle	Chapter 8 Law of Sines Law of Logging Chapter 6 Sine Graphs Cosine Graphs Other triangle graphs Inverse trig functions	Chapter 7 Solving Trig Equations Sum and Difference Formulas Multiple Angle Product Sum Chapter 9 and 10 Matrices and Systems	
SKILLS	Be able to graph and determine what parabolas, ellipses and hyperbolas are made of. Be able to write exponential equation in log form and log to exponential form.	Preamble to solve log/ exponential equations Understand basic right triangle	Chapter 7 Using trig Identities Verifying trig Identities	Chapter 11 Sequences Summation Notation Arithmetic Sequences Geometric Sequences	
ASSESSMENT					

NOTES: Map completed by 4/25/03

CURRICULUM MAPPING

COURSE: Geometry

INSTRUCTOR: Weber

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Geometry Measurement	Geometry Measurement	Geometry Algebra Measurement	Geometry Algebra Measurement	Geometry Algebra
CONTENT	Plane Geometry Segment & Angle Relations	Plane Geometry Segment & Angle Relations	Reasoning Slope Parallel lines ⊥ lines Transversals	Classifying Triangles	Quadrilaterals
SKILLS	<u>Define</u> – point, line, segment, plane, ray <u>Formulas</u> – midpoint perimeter, area <u>Relations</u> – segment/angle <u>Measure</u> – segments ruler <u>Measure</u> – angles/protractor	<u>Define</u> – point, line, segment, plane, ray <u>Formulas</u> – midpoint perimeter, area <u>Relations</u> – segment/angle <u>Measure</u> – segments ruler <u>Measure</u> – angles/protractor	Inductive Reasoning Deductive Reasoning Proof introduction <u>Relations</u> – segment/ Angle	Identify triangles Angles Sides Congruent triangles ASA SSS SAS Triangle Segments	Classify
ASSESSMENT	Quizzes Tests Notes Homework Projects	Quizzes Tests Notes Homework Projects	Quizzes Tests Notes Homework Projects	Quizzes Tests Notes Homework Projects	Quizzes Tests Notes Homework Projects

NOTES:

CURRICULUM MAPPING

COURSE: Geometry

INSTRUCTOR: Weber

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Geometry Algebra	Geometry Algebra	Geometry Algebra	Geometry Algebra	Geometry Algebra
CONTENT	Proportions Ratios Similarity	Right triangle trigonometry	Circles	Polygons Circles	Surface Area Volume
SKILLS	Apply proportions to similar figures	Pythagorean theorem Trigonometric Ratios Altitude in right triangle Relations – Geometric measurement Angle of elevation/ depression	Circle segments properties Arcs – length, measure Angles in circles	<u>Measure</u> Interior exterior angles Areas Geometric Probability	Find lateral area Surface area & volume of solids
ASSESSMENT	Tests Quizzes Notes Homework Projects	Tests Quizzes Notes Homework Projects	Tests Quizzes Notes Homework Projects	Tests Quizzes Notes Homework Projects	Tests Quizzes Notes Homework Projects

NOTES:

CURRICULUM MAPPING

COURSE: Honors Computer Science

INSTRUCTOR: G. Biggs

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS			Algebra		
CONTENT	History of Computers/ Computer Architecture	History of Computers/ Computer Architecture	Entering, compiling and running basic programs Variables & constants	Operations in C++ String in put and out put using string	Decision making in C++ programs
SKILLS	Timeline, hardware layout Base conversions Programming Process Flow Charts	Timeline, hardware layout Base conversions Programming Process Flow Charts	Entering, compiling, and running programs iostream.h variable types	Order of operations Lin, cout, get Formatting out put	Pre & logical Operators If-then-else logic Switch Statements
ASSESSMENT	Quiz	Quiz	Quiz Lab work Programming Test	Quiz Lab work Programming Test	Lab work Quizzes Programming test Final Exam

NOTES:

CURRICULUM MAPPING

COURSE: Honors Computer Science

INSTRUCTOR: _____

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS					
CONTENT	Loops	Functions	Data Files	Using the string class Arrays/Vectors	Multi-dimensional Arrays Matrices
SKILLS	For loop While loop Do loop Nested loops	Building structured Programs Void Functions Divide and conquer Passing by value and by preference	Opening a file for Reading, writing or appending Detect cat Sequential vs. random access	Create Projects Use one dimensional arrays Use the vector class	Use multidimensional arrays
ASSESSMENT	Quiz Lab work Programming Test	Quiz Lab work Programming Test	Quiz, labs Tests	Tic-tac-toe Quiz, labs Tests Final Exam	Tic-tac-toe Quiz, labs Tests Final Exam

NOTES: Map created on 4/23/03

CURRICULUM MAPPING

COURSE: Honor Algebra I

INSTRUCTOR: George Michael

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	*Arithmetic	*Rational number expressions → * Data collection and analysis	*Algebra → using	→ proportions	→
CONTENT	*Number theory *Order of operations *Open sentences	*Patterns/sequences *Properties of equality	*Multiple step equations *Similarity *Trigonometry ratios *Percents	*Relations and functions	*Graphing relations and functions
SKILLS	*Solving equations	*Graphing *Mean, median, mode *Stem & leaf plots	*Solving multi-step equations *Solving triangles *Percent problems	*Domain and range	*Graphing linear equations *Forms of linear equations
ASSESSMENT	*Continental Math League *Mathematics Teacher *Quiz *Multiple choice and free response	Data and Collection Analysis →	Trigonometry similar →	worksheets triangles →	*Using forms of linear equations →

NOTES:

CURRICULUM MAPPING

COURSE: Honor Algebra I

INSTRUCTOR: George Michael

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	*Algebra	→	→	→	→
CONTENT	*Solving linear inequalities *Absolute value equations and inequalities *Box & whisker plots	*Systems of equations and inequalities	*Add, subtract, multiply divide polynomials *Finding “zeros”	*Factoring	*Quadratic & exponential functions
SKILLS	*Solve inequalities *Organize data & plot	*Solve : a) b) c) *Matrices determinants	Graphing Substitution Elimination *Recognize and use “special” products	*Using factoring for solutions *Distributing property *Quadratic formula	*Solutions by graphing *Solutions by factoring *Solutions by analysis
ASSESSMENT	*Graphing inequalities *Traditional assessment	*Representing solutions graphically/algebraically	→	→	→
				*connect: zero *x-intercept *solution factor	→ → →
					*Multiple step problems showing, array of solutions

NOTES:

CURRICULUM MAPPING

COURSE: Honors Alg 2

INSTRUCTOR: Exo

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Algebra	Algebra	Algebra	Algebra	Algebra
CONTENT	Analyzing Equations & Inequalities Graphing linear Relations & Functions	Analyzing Equations & Inequalities Graphing linear Relations & Functions	Systems of linear equations & trig.	Matrices	Polynomials & Radical expressions & Inequalities
SKILLS	Evaluate & simplify expressions Solve equations Solve & graph inequalities Display & interpret data using line plots & stem & leaf plots	Evaluate & simplify expressions Solve equations Solve & graph inequalities Display & interpret data using line plots & stem & leaf plots	Identify different types of relations & functions graph relations & functions Graph inequalities solve systems of equations in 2 or 3 variables; solve systems of inequalities	Create matrices to represent data Solve problems by using matrix logic Perform operations with matrices Use matrices to solve systems of equations	Simplify expressions containing polynomials radicals complex numbers or rational exponents Factor polynomials Solve equations containing radicals
ASSESSMENT	Quizzes Tests	Quizzes Tests	Quizzes Tests	Quizzes Tests	Quizzes Tests

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Honors Alg 2

INSTRUCTOR: Exo

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Algebra	Algebra	Algebra	Algebra	Algebra
CONTENT	Quadratic Functions	Conic Sections	Polynomial Functions Rational expressions & equations	Logarithm/ Exponential Function	Sequences & series
SKILLS	Graph quadratic functions solve quadratic equations Analyze graphs of quad functions & inequalities	Find distance & midpoint Write equations of conic sections having certain properties Graph conic sections Solve systems of quad equations inequalities	Find factors & zeros of polynomial functions Approximate real zeros of polynomial functions Graph polynomial functions Find composition of functions Find inverses of functions or relations Graph rational functions solve problems involving direct, inverse, joint variation simplify rational expressions Solve rational equations	Simplify expressions & solve equations involving real exponents Write exponential equations in log form Evaluate expressions & solve equations, involving logs. Find common & natural logs & antilog	Find the next number in a sequence by looking for a pattern Find terms in arith & geo sequence Find sums of arith & geo series
ASSESSMENT	Quizzes Tests	Quizzes Tests	Quizzes Tests	Quizzes Tests	Quizzes Tests

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Honors Geometry

INSTRUCTOR: Tinley

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS					
CONTENT	<ul style="list-style-type: none"> *Review coordinate plane *points, lines & planes *segments *angles 	<ul style="list-style-type: none"> *introduction to proofs *methods of reasoning 	<ul style="list-style-type: none"> *perpendicular lines *parallel lines *spherical geometry 	<ul style="list-style-type: none"> *congruent triangles *angles of a Δ *properties of isosceles triangles *inequalities with Δ's 	<ul style="list-style-type: none"> *Quadrilaterals
SKILLS	<ul style="list-style-type: none"> *Pythagorean thm. *distance formula *midpoint formula *identifying angle relationships 	<ul style="list-style-type: none"> *make conclusions using deductive reasoning *justify conclusions using deductive reasoning *verify angle & segment, relationships 	<ul style="list-style-type: none"> *angle relationships with parallel lines *slopes of lines *proving lines parallel 	<ul style="list-style-type: none"> *congruent Δ methods *proving Δ's congruent *median/altitude of Δ's 	<ul style="list-style-type: none"> *properties of quadrilaterals
ASSESSMENT	<ul style="list-style-type: none"> *Analyzing geometric figures *quiz *chapter test *homework 	<ul style="list-style-type: none"> *algebraic & geometric proof writing *quiz *chapter test *homework 		<ul style="list-style-type: none"> *triangle inequalities *inequalities of sides/angles of a Δ 	

NOTES: Test prep problems & strategies reviewed throughout the course

CURRICULUM MAPPING

COURSE: Honors Geometry

INSTRUCTOR: Tinley

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS					
CONTENT	*Similar Δ 's	*Special Rt. Δ 's *Right Δ Trig *Circles	*Area *Volume	*Coordinate Geometry	*Transformations
SKILLS	*Identifying similar Δ 's *Proving similar Δ 's *proportions in similar Δ 's	*30-60-90 Δ 's *45-45-90 Δ 's * right triangle trigonometry *properties of circles	*compute areas of quadrilaterals *compute areas of regular polygons *compute areas of circles	*graphing linear equations *writing equations of lines *scatter plots *Vectors	*mappings *reflections *translations *rotations *Dilations
ASSESSMENT	*quiz *chapter test	Area inscribed angles and tangents)	*Compute surface area *Compute volumes of prisms *Compute volumes of cylinders *Compute volumes of spheres		

NOTES: Test prep problems & strategies reviewed throughout the course

CURRICULUM MAPPING

COURSE: Intro to Alg/Geo

INSTRUCTOR: Trunk, Baranowski, Canning, Ekpenyong

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Geometry	Geometry	Algebra Data Arithmetic Geometry	Data Algebra	Review for exams Data Algebra
CONTENT	Area & Volume	Area & Volume	Ratio, Proportion, %	Applying %	Review for exams Applying %
SKILLS	Find area of: Δ , O , \diamond Find volume of: cylinder and square Carpeting a room, tiling a floor	Find area of: Δ , O , \diamond Find volume of: cylinder and square Carpeting a room, tiling a floor	Ratios Scale factor Similar figures Solving proportions	Find percent of a # Find what % of a # one # is Percent change Finding sale price	Review for exams Find percent of a # Find what % of a # one # is Percent change Finding sale price
ASSESSMENT	Quiz Test Lab	Quiz Test Lab	Quiz Test Lab	Quiz Test Lab	Review for exams Quiz Test Lab

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Intro to Alg/ Geometry

INSTRUCTOR: Trunk, Baranowski, Canning & Ekpenyong

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Data Measurement Algebra	Algebra Arithmetic	Geometry Algebra	Data Algebra	Data Algebra
CONTENT	Statistics & Graphs	Integers	Extending Algebra	Probability	Probability
SKILLS	Find the median, mode, range & mean Create bar graphs, circle graphs, line graphs & pictographs	Add, subtract, multiply, divide integers Compare integers	Solving equations (one step/two step) Coordinate plane	Number of outcomes Calculate Probability & % Odds	Odds Adding & multiplying % Semester Review
ASSESSMENT	Compile data and create several types of graphs		Quiz Test Lab	Performance Assessments Quiz Test Lab	Quiz Test Lab

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Pre-Algebra

INSTRUCTOR: Joe Weber/Bob Valiska

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Data	Data Algebra	Algebra	Algebra Geometry	Algebra
CONTENT	Graphs	Mean Median, Mode Basic Math Signed numbers, functions	Variables	Transformations Patterns	Equations
SKILLS	Reading, Interpreting & creating Polar grid, bar chart, Pie chart, spreadsheet	Exponents Average Analyze diagrams Order of operation (PEMDAS) $+$ $-$ \times \div	Substitution Distribution Simplify	Graphing Special Interpretation # pattern recognition	One step Two step Multiple steps
ASSESSMENT	Quizzes Charts Student Charts Tests CBL's	Quizzes Student charts Tests	Quizzes Tests	Creating Patterns Quizzes Tests Student Drawings	Quizzes Tests

NOTES:

CURRICULUM MAPPING

COURSE: Pre-Algebra

INSTRUCTOR: Joe Weber/Bob Valiska

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Geometry Algebra	Geometry Algebra	Algebra Geometry	Algebra Data	Algebra Data
CONTENT	Shapes	Shapes Ratios, Proportions	Similarity Right Δ Triangle	Probability	Probability
SKILLS	Perspectives Oblique Area Volume	Nets Ratios Areas Volumes	Pythagorean Theorem Soh Cah Toa Similarity in	Theoretical Probability	Grouping Permutation Combination
ASSESSMENT	Quizzes Drawings Exams	Drawings/Nets Quizzes Exams Enlargement Picture	Quizzes Exams Cooperative learning	Quizzes Student data Exams	Quizzes Exams

NOTES: Standardized Testing three hours a week for prep
1 week in April

CURRICULUM MAPPING

COURSE: Pre-calc

INSTRUCTOR: Maday, Newman, Gengo & McNeeley

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Algebra Data	Algebra Data	Algebra Data	Algebra Data	Algebra
CONTENT	Review (opt) Functions	Review (opt) Functions	Equations Poly fun	Exp/log	Rational fun
SKILLS	Interpret Graph Analyze data Applying functions	Interpret Graph Analyze data Applying functions	Solve Interpret Describe transform Find zeros	Solve equations Graph Application of exp/log	Graph Interpret graph Open sentences
ASSESSMENT	Quiz Test	Quiz Test	Quiz Test	Quiz Test	Quiz Test

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Pre-Calc

INSTRUCTOR: Maday, Newman, Genco & McNeeley

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Geometry Arithmetic Measurement	Geometry Measurement Arithmetic	Geometry Algebra	Arithmetic Algebra	Arithmetic Algebra
CONTENT	Trigonometry	Analytic Trig Application of Trig	Conics	Systems Matrices	Sequence & series
SKILLS	Unit circle Radian measure Application Graph trig fun	Solve equations Confirm ident. Laws of sin & cos Vectors	Circles Ellipses Hyperbolas Parabolas Transformation	Solve matrix operation Solve system using matrices	Sequences Series Binomial Theorem
ASSESSMENT	Quizzes Tests	Quizzes Test	Quizzes Test	Quizzes Test	Quizzes Test

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Topics

INSTRUCTOR: Adduci, Groenendal & Gesmond

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Algebra/Data	Exp. functions	Geometry/Measure	Algebra/data	Algebra/data
CONTENT	Exp. functions Graphing	Exp. functions Graphing	Area Volume Perimeter	Matrix Algebra	Measures of central tendency
SKILLS	Arithmetic Use of graphing calc. Solving equations Scatter plots	Arithmetic Use of graphing calc. Solving equations Scatter plots	Conversion bet metric & U.S. Use formulas Alternative methods for finding area	Scalon mutt Addition, subtraction, multiplication matrices	Calculate & mean median, mode
ASSESSMENT	Tests Projects Practical Applications Binders	Tests Projects Practical Applications Binders	Tests Projects Practical Applications Binders	Tests Projects Practical Applications Binders	Tests Projects Practical Applications Binders

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Topics

INSTRUCTOR: Adduci, Groenendal & Gesmond

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Data/ Algebra Arithmetic	Data/Algebra	Geometry/ Measurement	Geometry/ Measure	Algebra/ Arithmetic
CONTENT	Probability	Right Tri Trig Similarity	Right Tri Trig Similarity	Arithmetic sequences Geometry sequences	3D
SKILLS	Add, subtract fractions Independent, dep events Exclusive & non ex events	Sohcahtoa Proportions Similar Triangles	Sohcahtoa Similarity Proportions	Subscripted variables Manipulate Algebraic expressions	Graph xyz plane
ASSESSMENT	Tests Projects Practical Applications Binders	Tests Projects Practical Applications Binders	Tests Projects Practical Applications Binders	Tests Projects Practical Applications Binders	Tests Projects Practical Applications Binders

NOTES: Map created 4/23/03

CURRICULUM MAPPING

COURSE: Transition to Algebra & Geometry

INSTRUCTOR: Sue Bednarski/Clem Hajjar

	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STANDARDS	Arithmetic	Arithmetic Algebra	Arithmetic Geometry	Arithmetic Geometry Data →	
CONTENT	Applying numbers & variables	Applying numbers & variables Software/Lab basic Skills remediation →	Patterns in addition & subtraction →	Patterns in multiplication & division →	
SKILLS	Place value	Ordering whole numbers & decimals Estimation & comparison Order of operations One step equations Problems solving	Addition & subtraction of decimals & whole numbers Arithmetic sequences Perimeter Check book balancing	*multiplying & dividing whole numbers and decimals → *scientific notation *geometric sequences *area of rectangles *averages	
ASSESSMENT	Quiz	Chapter Test Lab: time, gain, percentage and daily performance	Section quizzes → Chapter Test Lab: time, gain, percentage and daily performance		Final Exam

NOTES:

CURRICULUM MAPPING

COURSE: Transition to Algebra & Geometry

INSTRUCTOR: Sue Bednarski & Clem Hajjar

	JANUARY	FEBRUARY	MARCH	APRIL	MAY
STANDARDS	Arithmetic	Arithmetic	Arithmetic Measurement	Geometry	Geometry
CONTENT	Patterns in simplifying and adding/sub fractions Lab remediation using success maker software →	Patterns in multiplying and dividing fractions →	Metric and standard measurement →	Geometry →	Geometry
SKILLS	Factors Simplifying fractions Adding/subtracting Fractions	Comparing fractions → Problem solving → Multiplying & dividing fractions Changing fractions to decimals and decimals to fractions	Measuring length, mass and capacity in the metric and customary systems Measurement conversions Application problems	Measure & classify angles Parallel & perpendicular lines → Polygons 3D figures	Finish Geometry
ASSESSMENT	Section quiz Test → Lab: time, gain, percentage & daily performance	→	→	→	Plus Final Exam

NOTES: