Year Overview Scope & Sequence Math

	T1	T1	T1	T1/2	T2	T2	T2/3	T3	T3	T3
	September	October	November	December	January	February	March	April	May	June
Intro to Algebra (6th Grade Math)	Pre-course Test, Numerical Expression and Factors	Fractions and Decimals, Ratios and Rates	Percents, Algebriac Expressions and Properties	Equations	Area, Surface Area, and Volume & Integers, Number Lines, and the Coordinate Plane	Statistical Measures & Data Displays	**Start 7th Grade Math: Follow from September**			
Pre-Algebra	Additing and Subtracting Rational Numbers & Multiplying and Dividing Rational Numbers	Expressions & Equations and Inequalities	Ratios and Proportions	Percents	Probability	Statistics	Geometric Shapes	Angles	Surface Area	Volume
Foundations of Algebra	Chapter 1 Equations Multi-Step Equations Equations with Variables on Both Sides Rewriting Equations	Chapter 2 Transformations Translations Reflections Rotations Congruent Figures DIlations Similar Figures Perimeter and Areas of Similar Figures	Chapter 3 Angles and Triangles Parallel Lines & Tranversals Angles of Triangles Angles of Polygons Using Similar Triangles Begin Chapter 4	Chapter 4 Graphing and Writing Linear Equations Slope of a Line Proportional Relationships Slop-Intercept Form Point-Slope Form	Chapter 5 Systems of Linear Equations Solving Systems by Graphng, Substitution, and Elimination	Chapter 7 Functions Relations Representation Linear Functions Comparing Linear and Nonlinear Functions Graphing	Chapter 8 Exponents and Scientific Notation Propuct of Powers Property Quotient Property Zero and Negative Exponents Estimating Scientific Notation Operations	Chapter 9 Real Numbers and the Pythagorean Theorem Square Roots Cube Roots Rational Numbers Irrational Numbers Converse of the Pythagorean Theorem	Chapter 10 Volume and Similar Solids Cylinders Cones Spheres Surface Areas and Volumes fo Similar Solids	Chapter 6 Data Analysis and DIsplays Scatter Plots Lines of Fit Two-Way Tables Choosing a Data Display as time allows
Algebra 1	Chapter 1 Solving Linear Equations	Chapter 2 Solving Linear Inequalities	Chapter 3 Graphing Linear Functions	Chapter 4 Writing Linear Functions	Chapter 5 Solving Systems of Equations	Chapter 6 Exponential Functions	Chapter 7 Polynomial Equations and Factoring	Chapter 8 Graphing Quadradic Functions	Chapter 9 Solving Quadratic Equations	
		Chapter 3 Graphing Linear Functions	Chapter 4 Writing Linear Functions	Chapter 5 Solving Systems of Equations	Chapter 6 Exponential Functions	Chapter 7 Polynomial Equations and Factoring	Chapter 8 Graphing Quadradic Functions	Chapter 9 Solving Quadratic Equations	Chapter 10 Radical Functions and Equations	
Geometry	Chapter 1 Basics of Geometry Points, Lines planes, Segments, Midpoint and Distance Formulas, Perimeter and Area in the Coordinate Plane, Angles	Chapter 2 Reasoning and Proofs Conditional Statements, Inductive and Deductive Reasoning, Postulates and Diagrams, Algebraic Reasoning, Proving Segments, Angles, and Geometric Relationships	Chapter 3 Parallel and Perpendicular Lines, Pairs of Lines and Angles, Parallel Lines and Transversals, Proofs with Parallel Lines and Perpendicular Lines, Equations of Parallel and Perpendicular Lines	Chapter 4 Transformations, Translations, Reflections Rotations, Congruence and Transformations, Dilations, Similarity and Transformations	Chapter 5 Congruent Triangles, Angles, Congruent Polygons, Congruence by SAS, SSS, ASA, and AAS, Equilateral and Isosceles Triangles, Coordinate Proofs	Chapter 6 Relationships with Triangles, Angle Bisectors, Triangle Bisectors, Medians and Altitudes, Triangle Midsegment Theorem, Indirect Proof and Inequalities in One Triangle, Inequalities in Two Triangles	Chapter 7 Quadrilaterals and Other Polygons Angles of Polygons, Parallelograms, Trapezoids and Kites Chapter 8 Similarity Polygons, Proving Triangle Similarity by AA, SAS, and SSS, Proportionality Theorems	Chapter 9 Right Triangles and Trigonometry, Pythagorean Theorem, Special and Similar Right Triangles, Tangent, SIne, and Cosine Ratios, Law of Sines and Cosines	Chapter 10 Circles, lines and Segments, Arc Measures, Chords, Inscribed Angles and Polygons, Agle Relationships, Segment Relationships Circles in the Coordinate Plane	Chapter 11 Circumference, Area, and Volume, Circumference Arc Length, Areas of Circles and Sectors, Areas of Polygons, 3-D Figures, Prisms, Cylinders, Pyramids, Cones, Spheres, Chapter 12 Probability as time allows
Algebra 2	Chapter 1 Linear Functions Parent Functions Transformations of Linear and Absolute Value Functions Linear Systems	Chapter 2 Quadratic Functions Transformations Characteristics Focus of a Parabola	Chapter 3 Quadratic Equations and Complex Numbers Complex Numbers Completin the Square Quadratic Formula Nonlinear Systems Quadratic Inequalities	Chapter 4 Polynomial Functions Graphing Factoring Fundamental Theorem of Algebra Transformations Analyzing Graphs	Chapter 5 Rational Exponents and Radical Functions nth Roots Properties of Rational Exponents and Radicals Graphing Radical Functions Function Operations Inverse of a Function	Chapter 6 Exponential and Logarithmic Functions Exp. Growth and Decay Natural Base e Transformations and Properties of Logarithmic Functions	Chapter 7 Rational Functions Inverse Variation Graphing Rational Functions Multiply, Divide, Add, & Subtract Rational Expressions	Chapter 9 Trigonometric Ratios and Functions Right Triangle Trig Angle and Radian Measure Graphing Sine, Cosine, and other Trig Functions Using Trig Identities Sum and Difference Formulas	Chapter 8 Sequences and Series Chapter 10 Probability and Chapter 11 Data Analysis and Statistics as time allows	I added a unit on Conic Sections that isn't in the book. The high school instructor said the students would need to know those concepts to be prepared for Precalculus