Unit Name	Unit 1: Investigating Descriptive & Inferential Statistics (DOE Unit 1)	Unit 2: Modeling Polynomial and Piecewise Functions (DOE Units 3 and 4)	Unit 3: Modeling Rational Functions (DOE Unit 4)	Unit 4: Modeling with Radical, Exponential, and Logarithmic Functions and Series (DOE Unit 2 and 8)	Unit 5: Modeling Trigonometry, the Unit Circle, and Polar Functions (DOE Units 5 and 6)	Unit 6: Functions Involving Parameters, Conics, Vectors, and Matrices (DOE Units 3, 6, and 7)	Unit 7: Culminating Capstone Unit (DOE Unit 9)
Time Frame	2 weeks	4 - 5 weeks	4 - 5 weeks	6 - 7 weeks	7 - 8 weeks	2 - 3 weeks	1 - 2 weeks
Standards	AA.DSR.2 PC.MP.1-5 PC.MM.1	AP 1.1 - 1.6 AA.FGR.5 PC.FGR.2.1 - 2.4 PC.MP.1-8 PC.MM.1	AP 1.7 - 1.14 AA.FGR.8 PC.FGR.2.5 - 2.9 PC.MP.1-8 PC.MM.1	AP 2.1 - 2.15 AA.FGR.3 AA.FGR.4 PC.PAR.7 PC.MP.1-8 PC.MM.1	AP 3.1 - 3.15 AA.GSR.7 PC.FGR.3 PC.AGR.4 PC.GSR.5.3 - 5.5 PC.MP.1-8 PC.MM.1	AP 4.1 - 4.14 AA.PAR.6 PC.AGR.6 PC.GSR.5.1 - 5.2 PC.MP.1-8 PC.MM.1	ALL STANDARDS PC.MP.1-8
Content Specific Information	-Surveys and Studies -Population and Sample Distributions -The Normal Curve -Empirical Rule -Margin of Error and confidence intervals -Sampling Methods -Centers and Spread -Conceptual understanding of standard deviation	-Changes in Tandem -Rates of Change -Rates of Change in Linear and Quadratic Functions -Polynomial Functions and Rates of Change -Polynomial Functions and End Behavior -Piecewise Functions and Rates of Change -Complex Numbers and Complex Conjugate -Modeling with Quadratics in Context	-Rational Functions and End Behavior -Rational Functions and Zeros -Rational Functions and Vertical Asymptotes -Rational Functions and Holes -Equivalent Representations of Polynomial and Rational Expressions -Transformations of Functions -Function Model Selection and Assumption Articulation -Function Model Construction and Application	 -Change in Arithmetic and Geometric Sequences -Change in Linear and Exponential Functions -Exponential Function Manipulation -Exponential Function Context and Data Modeling -Completing Function Model Validation -Composition of Functions -Inverse Functions -Logarithmic Expressions -Inverses of Exponential Functions -Logarithmic Functions -Logarithmic Function Manipulation -Exponential and Logarithmic Equations and Inequalities -Logarithmic Function Context and Data Modeling -Semi-log Plots -Create, interpret, and solve radical equations 	 -Periodic Phenomena -Sine, Cosine, and Tangent -Sine and Cosine Function Values -Sine and Cosine Function Graphs -Sinusoidal Function Transformations -Sinusoidal Function Context and Data Modeling -The Tangent Function -Inverse Trigonometric Functions -Trigonometric Equations and Inequalities -The Secant, Cosecant, and Cotangent Functions -Equivalent Representations of Trigonometric Functions -Trigonometry and Polar Coordinates -Polar Function Graphs -Rates of Change in Polar Functions 	-Parametric Functions -Parametric Functions Modeling Planar Motion -Parametric Functions and Rates of Change -Parametrically Defined Circles and Lines -Implicitly Defined Functions -Conic Sections -Parametrization of Implicitly Defined Functions -Vectors -Vector-Valued Functions -Matrices -The Inverse and Determinant of a Matrix -Linear Transformations and Matrices -Matrices as Functions -Matrices Modeling Contexts	The capstone unit applies content that has already been learned in previous interdisciplinary PBLs and units throughout the school year. The capstone unit is an interdisciplinary unit that allows students to create a presentation, report, or demonstration that could include their models used to answer an overarching driving question.
Common Assessments/ Performance Projects	Unit Test	Unit Quiz	Unit Quiz Unit Test	Unit Quiz	Unit Quiz	Unit Test	
Differentiation For Tiered Learners	Marietta City Schools teacher	rs provide specific differentiation	on of learning experiences for all	students. Details for differentiatio	on for learning experiences are inc	luded on the district unit planner	S.

MCS Enhanced Advanced Algebra & AP Precalculus Subject Group Overview