Precalculus
Instructional Guide and Syllabus

State-Approved Curriculum: Tennessee Academic Standards found here.

White County Board Policy 4.400 - Instructional Materials

Quarter 1:8/5- 10/9

Essential Standards: Algebra Review, Functions, Limits, Continuity, Tangent Line Problem, Definition of a Derivative, and Operations on Functions, Composite Functions, Inverse Functions, Graphing Basic and Rational Functions, and Exponential Functions

Main Objectives	Documents & Resources	Major Assignments
Week 1: Algebra Review Week 2 - 3: Functions (Limits, Continuity, Tangents, Definition of a Derivative) Week 4: Operations, Composite, and Inverse Functions Week 5 - 6: Graphing Basic and Rational Functions, Conic Sections Week 7 - 9: Exponential Functions (2.5 weeks)	Various worksheets, Chapter 2.1- 2.5, 10.1-10.4 Chapter 1.1-1.4, 12.1-12.4, additional worksheets Chapter 1.8,1.9, additional worksheets Chapter 1.5-1.7, 2.6, 10.1-10.4, additional worksheet Chapter 3, additional worksheets	Algebra Review Test Test 1.1-1.4, 12.1-12.4 Test 1.8,1.9 Test Chapter 1.5-1.7, 2.6, 10.1-10.2 Test Exponential Functions Budget Project

Quarter 2: 10/17-12/19		
Essential Standards: Logarithmic Functions, Trigonometry (Definitions, Unit Circle, Bearings, Vectors, Solving Word Problems, Graphing, Identities)		
Main Objectives	**Documents & Resources**	**Major Assignments**
Week 9 - 10: Logarithmic Functions (1.5 weeks) Week 11 - 13: Introduction to Trigonometry, Unit Circle, Graphing and Solving Trigonometric Word Problems (2.5 weeks) Week 13 - 14: Bearings and Vectors (1.5 weeks) Week 15 - 16: Trigonometric Identities Week 17: Matrices and Systems of Equations Week 18: Polar Coordinates and Parametric Equations; Sequences and Series	Chapter 3, additional worksheets Chapter 4.1-4.6, additional worksheets Chapter 6, additional worksheets Chapter 5, additional worksheets Chapter 7 - 8, additional worksheets Chapter 9.1 - 9.3, 9.5, 10.6-10.9	Test Logarithmic Functions Earthquake Project Test Chapter 4.1-4.4 Test Graphing Trig. Functions (Chapter 4.5-4.6) Test Bearings/Vectors Test Trigonometric Identities Test Matrices and Systems of Equations Test Polar Coordinates and Parametric Equations