UNIT	SKILLS	TYPE OF ASSESSMENT USED

Technology	- Calculations - Statistics:
	    - histograms
	    - Box and Whisker plots
	    - scatter plots
	    - line of regression
	    - curves of best fit - Graphing - Programming - Applications to real life problem-solving
		- Tests are calculator-based - Problem-solving

Review of Basic Algebra	- The real number system - Properties of real numbers and the basic rules of algebra - Radicals and rational exponents - Polynomials and special products - Factoring - Fractional expressions - The Cartesian plane	- Quizzes - Unit test
Functions and Graphs	- Graphs and graphing utilities - Lines in the plane - Functions - Graphs of functions - Shifting, reflecting and stretching graphs - Combinations of functions - Inverse functions	- Quizzes - Unit test

Course/Subject: **Pre Calculus – Course IV**   Grade Level/Building: **High School**   **7/00**

UNIT	SKILLS	TYPE OF ASSESSMENT USED
Solving Equations and Inequalities	• Linear equations • Linear equations and modeling • Solving equations graphically • Quadratic equations • The quadratic formula • Other types of equations • Linear inequalities and graphing utilities • Other types of inequalities and graphing utilities	• Quizzes • Unit test
Polynomial Functions: Graphs and Zeros	• Quadratic functions • Polynomial functions of higher degree • Polynomial division and synthetic division • Real zeros of polynomial functions • Complex numbers • Complex zeros and the fundamental theorem of algebra	• Quizzes • Unit test
Rational Functions and Conic Sections	• Rational functions and asymptotes • Graphs of rational functions • Conic sections and graphs • Conic sections and translations • Applications	• Quizzes • Unit test
Exponential and Logarithmic Functions	• Exponential functions and their graphs • Logarithmic functions and their graphs • Properties of logarithms • Solving exponential and logarithmic equations • Applications of exponential and logarithmic functions	• Quizzes • Unit test
Trigonometry	• Angles and their measure • Right triangle trigonometry • Trigonometric functions of any angle or real number • Graphs of sine and cosine functions	• Quizzes • Unit test