Dear Students and Parents/Guardians,

Welcome to **Enhanced Advanced Algebra and AP Precalculus: Concepts and Connections**! This is a rigorous, fast-paced course designed to merge the advanced study of algebra with college-level precalculus concepts. By choosing this pathway, you are embarking on a journey that will prepare you for AP Calculus and other advanced college-level mathematics.

As outlined by the Georgia Department of Education (GaDOE), this course is designed to develop your algebraic, functional, and graphical reasoning. Throughout the year, we will explore and analyze structures and patterns for exponential, logarithmic, radical, polynomial, piecewise, and rational expressions, equations, and functions to better understand the world around us.

Because this course combines two high-level high school math curricula, maintaining a solid foundation in prerequisite skills is crucial. To ensure you start the school year ready to engage deeply with this college-level material, you are required to complete a summer preparation assignment.

This is from College Board. Many of these we will cover throughout the year.

Recommended Prerequisite Skills for AP PreCal

To be successful, the College Board expects you to demonstrate proficiency in the following mathematical concepts: [1, 2]

- **Linear & Quadratic Functions:** Algebraic manipulation, solving equations, solving inequalities, and graphing.
- **Polynomial Expressions:** Polynomial addition, multiplication, factoring quadratic trinomials, and using the quadratic formula.
- **Trigonometry:** Solving right triangle problems.
- **System of Equations:** Solving systems in two and three variables.
- **Fundamental Familiarity:** You should also be comfortable working with piecewise-defined functions, exponential functions, rules for exponents, radicals (square and cube roots), and complex numbers. [1, 2]

Please sign up for the delta math class for the summer. Save your information so that you won't lose your login over the summer. Use your personal email address for the summer.

https://www.deltamath.com/students?code=44TJ-49AC

Please don't wait until the last minute to complete this assignment.

Deadline for the assignment will be announced on the first day of school. If you have any issues, please email me hicksont@fultonschools.org