Pre-Calculus Syllabus 2019-2020

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Tutoring: Tuesdays and Thursday after school.

Supplies

- Ample supply of paper, pencils, erasers
- Composition Books
- **Calculator:** Students are encouraged to buy the TI-36X Pro or TI graphing calculator to be successful in this course. The TI-36 can be purchased using the QR code below. Select **math** to purchase a calculator

Or visit the website at
https://paulding.revtrak.net

Attendance and makeup work

Attendance is an extremely important part of this class. Your success depends on your being in class every day. If you are absent it is your responsibility to get the notes and assignments that are missed. If you are absent, you will follow the Paulding County School District policy regarding makeup assignments. Missed tests can be made up before or after school during tutoring and by the end of the 3rd day following the test.

Expectations

High expectations produce high results. The following is expected from every student:
* Attend class everyday
* Complete assignments on time
* Seated and prepared for learning when the bell rings
* Treat classmates, teachers, and others with respect
* Active and positive participation in class
* Work with all group members whenever group work is assigned

Homework:

Homework will be assigned most days. Students are expected to take class notes in their composition books and keep them organized along with homework assignments, quizzes, tests, handouts, etc.

Cell Phones:

Students may not use phones during any graded assignments. Students will be asked to put their phones away during all tests. If a student has a phone out during a test it will be considered cheating. Cell phones may be used during other times for instructional purposes at the teacher's discretion.

Grading Policy:

Grades will be based on the following:

Summative …………….............60%

Formative.....................................20%
Final Exam…………………………..20%

Mastery Plan

Academic success and proficiency of standards are goals set forth for all students. Given that individuals learn in different ways and at different rates, our GSE Math Mastery Plan will provide the necessary support to achieve such goals. The Mastery Plan is outlined below:
* 11th and 12th grade students will be allowed to recover a maximum of 2 summative assessments
* Any student electing to recover a summative assessment must make the teacher aware of his/her intention and must meet prescribed deadlines.
* The student must satisfactorily complete all remedial work and is strongly urged to attend tutoring (at least one session, but more if necessary)

GSE Pre-Calculus: Unit Descriptions

Unit 1: Students will use the unit circle to extend the domain of trigonometric functions to include all real numbers. Students will develop understanding of the radian measure of an angle, graph trigonometric functions, and derive and apply the Pythagorean identity.

Unit 2: Building on standards from Unit 1, students extend their study of the unit circle and trigonometric functions. Students will create inverses of trigonometric functions and use the inverse functions to solve trigonometric equations that arise in real-world problems.

Unit 3: Building on standards from Unit 1 and Unit 2, students will apply trigonometry to general triangles. Students will derive the trigonometric formula for the area of a triangle and prove and use the Laws of Sines and Cosines to solve problems.

Unit 4: Building on standards from the first three units, students will prove and use addition, subtraction, double, and half-angle formulas to solve problems.

Unit 5: Students will perform operations on matrices, use matrices in applications, and use matrices to represent and solve systems of equations.

Unit 6: Building on standards from previous courses, students will derive the equations of conic sections (parabolas, ellipses, and hyperbolas). Students will solve systems of a linear and quadratic equation in two variables.

Unit 7: Students will extend their understanding of complex numbers and their operations through graphical representations. Students will perform operations on vectors and use the operations to represent various quantities.

Unit 8: Students will extend their study of probability by computing and interpreting probabilities of compound events. Students will calculate expected values and use them to solve problems and make informed decisions.

Please sign and return by…

Acknowledgement of receipt:

By signing below, you acknowledge that you are familiar and understand the policies and expectations of this class.

_____   _____   _____

Print Student Name   Student Signature   Date

_____   _____   _____

Print Parent Name   Parent Signature   Date