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W. P. Davidson High School
Honors Algebra 2 with Trigonometry
Fall 2019

Why study algebra?

This class will show you extensions and applications of topics covered in algebra 1 and geometry. This class will focus on problem solving, graphing, modeling and trigonometry. There is an assumption that students in the course will study mathematics through calculus.

This class will be interesting and challenging. Your success is not only my goal, but also the goal of Davidson High School. But the most important factor of your success is your effort, dedication and good judgment. I look forward to an exciting semester.

We will study algebra necessary for the study of calculus, functions and their behavior, logarithms and exponential functions and analytic trigonometry.

Class Rules

1. Be respectful of everyone and everything around you.
2. Use your best effort everyday.
3. Obey all school rules.

All school rules will be enforced. This includes rules regarding uniform, cell phones and other electronic devices.

Class Policies and Procedures

1. Tardiness – A student should be seated and ready for class when the tardy bell rings. Pencil sharpening should be done before the tardy bell rings. Students not seated and ready to work when the bell rings will be required to obtain a tardy pass.
2. Bathroom/Office passes – Personal needs should be handled between classes. Passes to the bathroom are a privilege and will be provided accordingly. Passes to run errands around the school will not be given.
3. Uniform – In keeping with school policy, proper school uniform is required at all times. ID badges must be worn.
4. Absences
 - a. Davidson High School strictly enforces the policy regarding excessive absences. Students with more than five (5) unexcused absences will not receive credit for the course. Students are strongly encouraged to attend every class meeting.
 - b. Do not miss test days. You will not enjoy sitting in the classroom after school taking a make-up test. Make-up tests are given at Ms. Parker's discretion.
5. Make-Up Work – Students who miss the day an assignment is given or the day the assignment is collected will have one week to turn-in the assignment. It is the student's responsibility to obtain, complete and turn-in the make-up work.

Required Supplies

1. Pen/pencil
2. One inch 3-ring binder with filler paper
3. Texas Instruments graphing calculator
4. Textbook – you are required to bring your textbook to class every day

Students who are unprepared for class will be asked to leave the class for the day. Exceptions are solely at my discretion.

Grading

Your quarter grades will be determined as follows:

20% - quarter exam – This is a cumulative exam covering all material taught in the course.

48% - TESTS – This includes end of chapter tests and some quizzes.

24% - assignments & quizzes – This category includes quizzes and assignments that will be graded for accuracy.

8% - effort – This category includes in class and out of class assignments that are graded for effort only.

Progress reports will be provided to students throughout the semester. Parents are encouraged to obtain the pin number to use the schools online program for obtaining student grades.

Tutoring

I am available most every day immediately after school for students with questions.

Resources

The following resources will be helpful in the study of mathematics:

<http://www.kenken.com/> - Fun puzzles to improve speed in arithmetic.

www.khanacademy.com – This is a helpful site full of videos and practice problems.

Topics

- I. First Quarter
 - a. Linear functions, graphing, inequalities, linear programming
 - b. Quadratics
 - c. Polynomials
 - d. Radicals and rational exponents
 - e. Logarithms, logarithmic and exponential functions
- II. Second Quarter
 - a. Rational functions and operations with rational expressions
 - b. Statistics and binomial distribution
 - c. Trigonometry
 - d. Conic sections