Math 8
2022-2023

Instructor: Ashley Aderholt
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Google Classroom: A weekly schedule with topics, classwork, and homework will be posted on Google Classroom therefore it will be required for the class.

Materials:
- Pencils, highlighters, erasers
- Durable or Heavy-Duty Binder w/ Dividers and College Ruled Paper
- A scientific calculator is preferred (TI-30XIIS is a good one that will get students through Precalculus)
- Reliable device (excluding cell phone) w/audio and video capabilities
- Headphones

Note** Pens will not be allowed for use on anything that must be turned into me (homework, classwork, quizzes, tests, etc), but they can be used for writing notes if that is what the student prefers. **

Wish List:
These items are not required but would be greatly appreciated for classroom and student use throughout the school year. Wish List Items: First Aid Kit, Disinfecting Wipes, Tissues, Hand Sanitizer, Wooden Pencils

Grades: Total points system will be utilized.

 <u>NO LATE WORK WILL BE ACCEPTED</u> UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE!

Attendance:
It is YOUR responsibility to get homework assignments or make-up work when you have been absent. Google Classroom is always a good place to start, but for the assignments that may not be posted, please check with a classmate or come to me OUTSIDE OF CLASS TIME. *Credit for missed assignments will only be given for **excused** absences.* **No credit is given for unexcused absences.**
If you are absent the <u>day of</u> or the <u>day before a test</u>, you should be prepared to take the test the day that you return to school. New material will never be covered the day before a test; therefore, you will have had all the information you need prior to the test day. If you are absent for several days, an ample amount of time (the number of days absent plus one) will be given to make up the work. **<u>PLEASE make it a point to come talk with me after an absence.</u>

Calculator: A scientific (non-graphing) calculator is required for this course. You are NOT allowed to use a graphing scientific calculator for this course. (TI 82 and up). You are NOT allowed to use any calculator that is able to store information in it (e.g. formulas).

If you have already bought a graphing calculator, I will provide calculators for you during quizzes, tests, and semester exams.

Cell Phones should be off or completely silent (not vibrate). Check your missed calls and texts after class.

Laptops/Tablets can be used in class when the teacher finds it appropriate for classwork.

Academic Honesty:
All students will follow and abide by the **ASFA Honor Code**. How does this specifically relate to this class? Because of the nature of mathematics, I truly believe that discussion and collaboration needs to take place to fully grasp a concept. I encourage you to work with your peers on homework assignments and discuss any problems you are experiencing—help each other. What that DOES NOT MEAN is that you should copy someone's homework or allow someone to copy your work without any effort having been previously put forth.
I will also occasionally post homework answers online for you to check your work—my expectation (and requirement) is that you attempt the work to the best of your ability before checking your answers. Use the answers to help you find your mistakes and correct them.
Any violation of the Honor Code will be subject to the consequences stated in the ASFA Student Handbook.

Topics to be covered:
Number Systems and Operations
• Understand that the real number system is composed of rational and irrational numbers.

Algebra and Functions
• Apply concepts of rational and integer exponents.
• Analyze the relationship between proportional and non-proportional situations.
• Analyze and solve linear equations and systems of two linear equations.
• Explain, evaluate, and compare functions.
• Use functions to model relationships between quantities.

Data Analysis, Statistics, and Probability
• Investigate patterns of association in bivariate data.

Geometry and Measurement Clusters
• Understand congruence and similarity using physical models or technology.
• Analyze parallel lines cut by a transversal.
• Understand and apply the Pythagorean Theorem.
• Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.