

Algebra 2/Geometry 2 Syllabus 2022-2023

Mrs. Alise Weber

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**Tutoring and Office Hours:
7th hour**

Course Goals/Objectives: “Essential learnings” of Algebra/Geometry 2 include mastery of computations using real and complex numbers, graphs (plotting data, graphs on the number line, graphs on the coordinate plane, linear regression), sets and set theory (finite sets, integers, real numbers, union, intersection, Venn diagrams), measurement (English and metric, conversion by unit multipliers), ratio (proportion, percent, rate), exponents and roots, statistics and probability, simplifying algebraic expressions (arithmetic, exponential, radical, rational, polynomial), equations (solving equations, linear equations, quadratic equations, systems of equations, logarithmic equations, exponential equations), functions (domain, range, operations, graphing, parabolas), geometry (lines, points, planes, angles, polygons, circles, triangles, geometric solids, perimeter and circumference, area, surface area, volume, Pythagorean Theorem, constructions, proofs), right triangle trigonometry, vectors (polar, rectangular, addition), and applications using all of the above.

Required Textbook:

Title: Saxon Algebra 2, 3rd ed.

Author: John H. Saxon, Jr.

Copyright: 2004

Saxon Publishers, Inc.

Required Materials (bring to class everyday):

Covered Textbook (must be paper)

Spiral notebook or loose leaf in binder

Pencil (with eraser)

Highlighter

Dry Erase Markers (bold colors only)

Ruler

Graphing Calculator –TI Nspire CX (**not** CAS) preferred

Classroom Expectations:

School rules and policies will be enforced in this class. You are expected to know and follow the Student Handbook (in your planner), the Jefferson County Public Schools Conduct Code, and the Academic and Behavior Contracts (signed at registration). In addition, here is a list of the classroom rules:

1. **Be Punctual.** You will be considered tardy if you are not in your assigned seat by the time the tardy bell stops ringing. An excused tardy will be granted only with a pass from the attendance office.
2. **Be Prepared.** Come to class with the required materials, including textbook, pen/pencil, and homework from the previous class. Take notes and copy all examples done in class. Keep notes, homework, and tests in your binder.

3. **Be Respectful.** Treat everyone with respect and consideration. Help to create a classroom environment that enables all students to learn. Respect the classroom by not bringing food, candy or drinks. Water in a clear bottle with a lid is permitted.
4. **Be Involved.** Actively participate in class; ask questions and listen to others' questions. Phones need to be kept in your backpack.. Your calculator will be confiscated if you are playing calculator games during class.
5. **Be a Self-Starter.** If you need additional help I am available during 7th hour. When the math lesson is over, use the remaining time to work on your math assignment; it is not social time. If you finish your assignment you should complete work for another class.

Grading:

Grades are earned, not given. Here is how you will earn your grade in this class:

Tests (90%):

Tests will be given approximately every other week and will be similar to the problem sets. Each test is worth 100 points. Students will be required to complete corrections for all missed problems. Students will have advance notice of test dates. When students miss a test, they will be expected to make it up as soon as possible. The teacher reserves the right to administer the test upon the day of the student's return.

The **final exam** is worth 200 points.

Classwork/Homework (10%)

Homework will be assigned and collected for a grade daily. Students will complete their homework on problem set sheets that will be provided by the teacher. Students should come to class with the previous day's assignment complete and the odd problems checked and corrected. A correct odd answer should be indicated by highlighting the problem number. Students should attempt to correct any odd problems they miss before class. Each homework assignment will be given a grade out of 10. Ten percent will be deducted for each problem not attempted. Late work turned in within one week will be accepted for a zero. Students with no missing assignments at the end of the semester will be allowed to drop their lowest test score.

Grades are cumulative on a semester basis. Progress reports will be posted on Parent Portal three times per semester. Grades, which will be updated at least once per week, can be viewed at anytime via the Parent Portal. Instructions for accessing my grade book via Parent Portal can be found on the D'Evelyn web page. Letter grades are given according to the D'Evelyn grading scale:

| <u>Grade</u> | <u>Percentage</u> |
|---------------------|--------------------------|
| A | 90%-100% |
| B | 80-89% |
| C | 70-79% |
| D | 60-69% |
| F | <60% |

Make-up Work:

Excused Absences - Absent students are allowed two days per day absent to make up all work assigned the day of the absence for full credit. Students are encouraged to use a pre-arranged absence form whenever possible.

Unexcused Absences - Students with unexcused absences, per district policy, are allowed two days per day absent to make up all work assigned the day of the absence with the following grade adjustments:

- With the first two unexcused absences, work will be reduced one letter grade.
- After two unexcused absences, work will be reduced two letter grades.
- With regard to missing a test due to an unexcused absence, the student may expect to take the test the day he or she returns.
- Missing the day **before** a test is not a sufficient excuse for postponing the test, as none of that test's material will be taught the day before that test. In this case, the student should expect to take the test on test day.

Cheating and Plagiarism:

Cheating and plagiarism are very serious violations of the academic program at D'Evelyn Jr./Sr. High School. D'Evelyn holds high academic expectations for all students and academic integrity is an extremely important aspect of those expectations. Any student caught cheating on a quiz, test, homework, or any classroom assignment, or found guilty of plagiarism (to pass off the ideas or works of another as one's own without crediting the source) or giving work to others will receive a grade of "zero" on that assignment or paper. Consequences for cheating/plagiarism will range from a detention to suspension in addition to a zero on the assignment.

Academic Integrity for Mathematics:

There is a difference between getting help from another student (allowed) and copying another student's work (cheating). A good rule of thumb is that you should not be writing on your paper while you are looking at another person's work (hard copy or electronic). The only time you should be copying problems verbatim is when you are taking notes from a teacher. The same applies when looking at the back of the book or online solutions.

Extra Help/Tutoring:

D'Evelyn is committed to whole group instruction; however, there are times when a student will need additional time and instruction to gain understanding on a particular topic. Students are encouraged to seek my assistance during 7th hour. Other ways students can access additional assistance for this course are:

- Forming and participating in a peer study group
- Working with a peer tutor