

8th Grade Algebra 1

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Conference Period: 10:04am – 10:51am

Tutoring Opportunities: Tuesdays and Thursdays before school (7:45-8:15). Other times by appointment only.

Class Materials:

Student Needs to Bring:

- Writing Utensil (Pencils)
- Pocket folder with Brads
- Notebook paper
- Headphones

Provided Technology Tools:

- Canvas all class notes and assignments will be located in Canvas
- Remind app will be utilized for homework reminders
- TI-84 Calculators (provided for student use in class)

Access to Canvas and Office365 tools is available to students through our <u>Single Sign-on Portal (SSO)</u>. Students receive their SSO login during enrollment.

Course Description:

In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. Algebra 1 students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of- course (EOC) Algebra 1 exam to meet part of the graduation requirements.

Course Goals:

Students who complete this course successfully will be able to:

- Connect functions and their associated solutions in both mathematical and real-world situations.
- Create functions through transformations.
- Use technology to collect and explore data and analyze statistical relationships.
- Understand and work with polynomials of degree one and two, radical expressions, sequences, and laws of exponents.
- Generate and solve linear systems with two equations and two variables

Student Evaluation:

The grading system for this course is as follows:

- Grade averaged 60% Major 40% Minor
- Major grades tests (including District Common Assessments, projects, final essays, research papers, presentations); minimum three per six weeks
- Minor grades quizzes, daily assignments, journals; minimum four per six weeks
- Each six weeks will count as 1/3 of the semester grade.
- A letter system (S, N, U) is used to report a student's conduct based on proper/responsive conduct and citizenship
- Per Board Policy EIA (LOCAL), "The District shall permit a student who meets the criteria detailed in the grading guidelines a reasonable opportunity to redo an assignment or retake a test for which the student received a **failing** grade. This policy applies only to initial identified major grades and does not apply to daily assignments and quizzes. Upon reteach and retest, the new test, project, etc. recorded will be a high score of 70%.
- Official grades will be in Skyward only and can be accessed by student and parent through Family Access.

Assignments, exams, expectations outside of the classroom:

- This is a flipped classroom setting. Students will be expected to watch a video and take notes at home most evenings. The videos will be a maximum of 10-15 minutes in length.
- Videos will be accessed through Canvas which works on a laptop or a cell phone.
- All notes and class assignments will be posted on canvas for students that are absent.
- Video notes are graded as follows:
 - \circ $$ 100% Completed on time
 - o 50% Completed late
 - 0% Not done at all

All note grades will be combined as one homework grade for each unit.

Attendance/Tardy Policy/Make-Up Work:

- Attendance: Students are expected to attend class every day possible
- Tardy Policy: Please refer to the student handbook regarding our campus Tardy policy
- Make-up Work: Most assignments are done within the time given for class. If a student is absent (exempting school related activities) they will get an additional day for each day absent.
- Students who are aware they will be absent due a school activity are responsible for turning in assignments the day they return to class.
- If a student is absent on the day of a test, then that student is expected to make up the test the day they return to school.
- All missing assignments and tests will be recorded as a zero in skyward until completed.

Classroom Expectations:

- Work the Willkie Way
 - Treat others with kindness in your words and actions
 - Phones off and away the whole school day
 - Have all supplies ready and in your seat before the bell rings
 - Come to class ready to learn and work
 - o Complete homework on time every time
 - Actively participate in class

Preliminary Schedule of Topics, Readings, and Assignments

- Unit 1: Linear Functions, Equations, and Inequalities Part 1
- Unit 2: Linear Functions, Equations, and Inequalities Part 2
- Unit 3: Systems of Equations and Inequalities
- Unit 4: Polynomials and Factoring
- Unit 5: Quadratic Functions and Equations
- Unit 6: Exponential Functions and Equations
- Unit 7: EOC Review
- Unit 8: Adding, Subtracting, and Multiplying Radicals

Academic Integrity:

Academic integrity values the work of individuals regardless if it is another student's work, a researcher, or author. The pursuit of learning requires each student to be responsible for his or her academic work. Academic dishonesty is not tolerated in our schools. Academic dishonesty includes cheating, copying the work of another student, plagiarism, and unauthorized communication between students during an examination. The determination that a student has engaged in academic dishonesty shall be based on the judgment of the classroom teacher or other supervising professional employee and considers written materials, observation, or information from students. Students found to have engaged in academic dishonesty shall be subject to disciplinary and/or academic penalties. The teacher and campus administrator shall jointly determine such action.

Test Prep:

8th Grade Algebra 1: Advanced classes integrate SAT test prep strategies from Khan Academy as it fits into the curriculum. Students will engage with tips, strategies, and study skills about how to master the SAT.

SAT/ACT Requirements:

Students who take Algebra 1 as an 8th grader must take either the corresponding ACT or SAT during high school in order to fulfill federal testing requirements and graduate.