# Algebra 1

## Mr. Chang

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## About Algebra 1

This course will cover the fundamentals of Algebra. Students will build upon their basic mathematical concepts and study problem-solving skills. Students will learn to express real-world problems in algebraic sentences and then find solutions. Everything done in this class will have a learning objective behind it. I will let students know what these objectives are as we begin each class period. All students can be successful. I will do everything I can to help each of you build a solid math foundation but I cannot do it alone. Students must do their part as well. The rest of this syllabus outlines what is expected of students in Algebra 1.

## Materials

**Students will need:**

Writing Utensil
Notebook or Binder
Color Pencils, Highlighters, OR Markers
Notebook paper / Graph Paper
Ruler
Tissues

## Tutorials

Tues and Thurs after school

Additional after school and Morning tutorials available by appointment.

Falcon Library M/Th 3-5:30PM

## Grades

**Major (40%)**

Tests (Weight 2)
Quiz (Weight 1)

**Minor (60%)**

Daily Practice (Weight 1)
Activities (Quizizz, Blooket, etc) (Weight 2)

## Contact Info

Preferred Method: Email
Conference Period: 3rd (9:10-9:55 AM)
Response Time:
Typically 24 hrs, M-F

## Technology and Personal Devices

Per Texas legislation, cell phones, smart watches, and headphones must remain powered off and in backpacks during school hours.

Any student who does not follow this policy will be subject to disciplinary action. **This includes the improper use of math apps to cheat on assignments.**

## Late Work

We will follow Lake Dallas ISD's late work policy.

All late work for each Unit is due by the end of the Unit.

# Calculators

We will use Desmos as a calculator for a majority of the course, students will not need to purchase a calculator as there are class sets.

If students would like to purchase one for their own use, they can purchase a scientific calculator I recommend the TI-30XIIS, or a graphing calculator, I recommend a TI-84

Not having a calculator does not excuse students from the activities/quizzes/tests/homework.

# Algebra 1 Course Outline

This is the general plan of units. Due to potential delays, there may be some changes in the outline.

- Unit 1 Searching For Patterns
  - Quantities and Relationships
  - Sequences
- Unit 2 Exploring Constant Change
  - Linear Functions
  - Transforming Linear Functions
- Unit 3 Modeling Linear Equations and Inequalities
  - Linear Equations and Inequalities
  - Systems of Linear Equations and Inequalities
- Unit 4 Investigating Growth and Decay
  - Introduction to Exponential Functions
  - Using Exponential Functions
- Unit 5 Maximizing and Minimizing
  - Introduction to Quadratic Functions
  - Polynomial Operations
  - Solving Quadratic Equations

# Daily Practice

- Practice will be assigned following each lesson.
- While collaboration is encouraged, students are expected to complete their own assignments.
- Assignments not completed in class will be assigned as homework, due by the next class.
- Daily practice will be completed in Delta Math, so students can work to the grade they desire
  a. Students must turn in their work on notebook paper for 50% credit towards each assignment.
  b. Any assignments not in Delta Math will be graded on accuracy.
  c. Students may request a physical copy of any Delta Math assignment, which will then be graded on accuracy.

# Retake Policy

If a student would like to retake a test or quiz, they must do the following before retesting will be allowed:
1. Have completed 100% of the practice for that unit and turned it in prior to unit test.
2. Attend an after school tutorial with Mr. Chang where the student will review misunderstandings on the unit test.
3. Bring in a teacher provided form signed by both the parent/guardian and student.
4. Retake must be taken prior to the next unit test.
5. Students will only be allowed to retake the test one time
6. Max grade on a retake is an 85, and student will keep whichever grade is highest (original vs. retake)
7. Students may simply correct the test for a 70 if they prefer.
   a. Corrections must be on a separate piece of paper including the problem, steps to solve, the answer, and what went wrong. (Same format used for Delta Math Assignments)

# Expectations

**Students will be expected to:**
- Be respectful of their peers, their environments, and their instructor
- Take responsibility for their actions
- Always give their best effort
- Come to class prepared
- Be an active participant
- Celebrate mistakes! This means you are LEARNING!
- Maintain academic honesty and integrity

## Other Expectations

Leaving the Classroom

Students must ask for permission to use the restroom or leave for any reason and are expected to swap their phone for the pass. It is strongly encouraged that the student waits until the lesson is finished, but as long as the privilege isn't abused, I am flexible.

Eating in Class

I allow food/drinks in class as long as any and all trash/spills are cleaned up. Failure to clean up after yourself will result in the entire class losing food privileges.

# Consequences

If any classroom expectations are not met, the following steps will be taken
1. Student receives a warning
2. Conference with student
3. Detention is assigned and parent/guardian is notified
4. Office referral

(per the Student Handbook, some offenses may require me to skip straight to office referral)

I give my students opportunities to make corrections of behaviors on their own at first, but if there is no improvement, I will ask parents/guardians to assist.

# Classroom Routine

The typical routine in the classroom will be as follows (excluding test days):
1. Students enter the classroom, put away their phone, remove headphones, head to their seats, and ready materials. This is also the time for students to turn in any assignments due.
2. Students will begin on the day's warm-up
3. Once the tardy bell rings, students will be given a notice of remaining time to complete the bellwork, no more than 5 minutes.
4. We will begin the lesson.
5. At the conclusion of the lesson, students will be given the day's practice activity.
6. Any incomplete work for the day will be assigned as homework due next class.
7. At the end of the class at your teacher's direction, students will be expected to quietly pack up and remain in their seats until the bell rings.