Algebra 1 [3DE] Course Syllabus 2022-23

Instructor: W. Xie   **Email**: wei.xie@houstonisd.org   **Room**: 2209

Office Hours: Monday (9:30AM-10:00AM)**&**Friday (8:30AM-9:30AM) **Ms. Xie's Office Hour Link**

Course Overview

The purpose of this course is to satisfy the Algebra 1 requirements of the Texas Essential Knowledge and Skills (TEKS) and prepare students to pass their STAAR math test and End of Course exam. This course extends on previous mathematic courses and introduces more advanced topics: solving, graphing, and writing linear equations and inequalities, linear systems, laws of exponents, quadratic and exponential functions, and factoring.

Textbook

Charles, R., 2016. *Texas Algebra I*. PEARSON.

About the Teacher

Welcome to Ms. Xie's Algebra 1 [3DE] class. After graduating from Texas A&M University in 2017 with my Master's degree in Curriculum and Instruction, I became a math teacher in Houston ISD. As a high school educator, the joy I felt from facilitating the growth and development of the students at Waltrip High School reaffirmed my passion. Helping my students become successful is my goal and my expectation for students is to become skilled life-long learners.

About 3DE Program

The 3DE model sets high expectations and fosters a strong sense of community among students. Year-over-year, the curriculum layers in defined competencies to continually build students' skills and mindset as they advance from facilitated learning to self-directed. By the end of their four-year high school career, students graduate with the knowledge, skills and confidence to thrive in post-secondary and beyond.

Class Application

Students are required to know and use CANVAS, Clever, IXL, PowerSchool, Microsoft TEAMS, College Board etc. according to the instruction need.

Course Objectives

- **Unit 0 Number and algebraic Methods**: (S1) The student will apply the algebraic methods to rewrite in equivalent forms and perform operations on polynomial expressions.
- **Unit 1 Linear Functions, equations, and inequalities**: (S1) The student will apply properties of linear functions to write and represent in multiple ways, with and without technology.
- **Unit 2 System of Linear equations, and inequalities**: (S1) The student will identify and solve system of linear function equations and inequalities, including equations, graphs and word problems.
- **Unit 3 Quadratic functions and equations:** (S2) The student will apply properties of quadratic functions to write and represent in multiple ways, with and without technology, quadratic equations.
- **Unit 4 Exponential Functions and equations:** (S2) The student will apply properties of exponential functions and their related transformations to write, graph, and represent in multiple ways exponential equations and evaluate, with and without technology, the reasonableness of their solutions.

Grading Scale

- Classwork/Homework   50%   ……at least 1 per week
- Tests/Projects/Quizzes   30%   ……at least 1 per week
- Daily Participation   20%   ……including warm-up, exit ticket, notes, and attendance per week
- *Any work not turned in will result in a zero.*
- Extra credit
    - Correcting exam questions will earn 0.5 point per question.
    - Extra credit opportunities will be designed with Ms. Xie's approval.
    - Late or missing work will not be eligible.
- Make sure turn in assignments on time to get Ms. Xie's feedback
- *To pass this class, students must pass both semesters and the final exams with a 75+*

Exam Retake Policy
- Students will be allowed to retake exams for *no more than 1 times within 1 week* from the original exam except for semester exam.

- Maximum score on re-test is 90.

Make-up for late work

It is the student's responsibility to check with the teacher about missing or make-up work. Students have up to **3 days** to turn in missing work from absences. Reminders will be given when possible, but **ultimately it is the student's responsibility.** Late work will not receive full points

and the **_maximum score is 90_**. Make a schedule with Ms. Xie by text/TEAMS/email/HUB if student need help with make-up work.

Class materials
- Laptop, charged, all applications set up and ready to go
- Be familiar with www.desmos.com
- Pencils or pens and scratch paper
- A notebook

Classroom Norms

- Always use appropriate language (no profanity) during within instruction time.
- In-Person Class:
  - o Prepare yourself before walking into the class.
  - o Be active and engaged during class time.
  - o Be dismissed by the teacher, not the bell.
  - o Use of all electronic device will be supervised by teacher.

- Individual / Group Learning:
  - o Honor your learning time
  - o Cooperate with others
  - o Follow pathway instructions post by the teacher
  - o Think before you ask questions
  - o Check your answers and learn from mistakes

Expectations

- Turned in complete work on time
- Come with the materials and mindset to learn
- Seek to understand, then be understood
- Contribute to our class community
- Embrace challenge and struggle as part of learning
- Acknowledge and respect lines of difference

Consequences

- 1st offense- verbal remind
- 2nd offense- individual talking
- 3rd offense- parent call/conference
- 4th offense- office referral and confiscation of electronic devise and will be turned over to the Administrator.

I truly look forward to working with you as we learn new things and to achieve success in the classroom! Please do not hesitate to talk to me about any questions, concerns, or comments you may have regarding to this course.

Waltrip High School

Algebra 1 [3DE] Student and Parent Signature Form

I have read and agree to the expectations, policies, rules, and consequences set forth in this syllabus. My signature below indicates this agreement.

_____   _____

Student Signature   **Date**

_____

Student Name (printed)

_____   _____

Parent/Guardian Signature | **Date | Fecha**

Firma del padre/tutor

_____

Parent/Guardian Name (printed) | Nombre del padre/tutor

Relation to student: _____

Parent Contact Information (phone number or email)

_____