Pre AP Algebra 1 Instructional Plan

2026 Fall Semester

Course Overview

Welcome to Pre AP Algebra 1!
Pre AP Algebra 1 is a foundational math course designed to help students think abstractly, solve real-world problems, and express ideas mathematically. Students will investigate patterns, relationships, and functions while strengthening their skills in data analysis, mathematical modeling, and solving equations and inequalities. The course emphasizes solving equations, graphing functions, and applying math concepts to everyday situations.

Contact Information

Teacher Name (s):
Soujanya Parupalli: soujanya.parupalli@midlandisd.net

Classroom Expectations

Students are expected to arrive to class on time and prepared to engage in learning. Students are expected to demonstrate respect, responsibility, and a commitment to learning. This includes arriving on time, being prepared with necessary materials, actively participating in class discussions and activities, and completing assignments on time. Respect for peers, the teacher, and the learning environment is essential, disruptive behavior, inappropriate language, or bullying will not be tolerated. Students should maintain academic integrity at all times and seek help when needed. A positive, focused attitude and consistent effort will contribute to a productive and supportive classroom community for everyone.

Attendance Policy & Its Importance

Regular school attendance is essential. Absences from class may result in serious disruption of a student's education. The student and parent should avoid unnecessary absences. Two important state laws—one dealing with compulsory attendance and the other with how attendance affects the award of a student's final grade or course credit—are discussed in the MISD Student Handbook.

Please notify the school if your child will be absent. Frequent or extended absences may make it more difficult for your child to learn necessary foundational skills that ensure student success this year and in future school years and could result in loss of credit.

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Learning Objectives

By the end of the first semester, students will be able to:

Using STEMscopes (Accelerate Learning), students will develop skills such as:

1st Nine Weeks: 41 days (August 18 - October 16)

Unit 1: Properties of Functions (8 days)
A.2A Determine the Domain and Range of Linear Function
A.12A Decide Whether a Relation is a Function
A.12B Evaluate Functions Using Function Notation

Unit 2: Solve Equations (8 days)
A.2D Direct Variation Equations…
A.5A Solve Linear Equations in One Variable
A.12E Solve Literal Equations & Formulas
A.5B Solve Linear Inequalities in One Variable

Unit 3: Slope and Rate of Change (6 days)
A.3A Determine Slope from Multiple Representations
A.3B Calculate Rate of Change in Context

Unit 4: Linear Functions and Models (10 days)
A.2A Determine the domain and range of Linear Functions
A.2C Write Linear Equations from Tables, Graphs, & Contexts
A.3C Graph Linear Functions & Identify Key Features
A.3E Analyze Transformations of Linear Functions
A.4A Interpret Correlation Coefficients
A.4B Compare Association & Causation
A.4C Write Linear Models from Data

Unit 5: Parallel and Perpendicular Lines (7 days)
A.2B Write Equations Using Points & Slopes
A.2C Write Linear Equations from Multiple Representations
A.2E Write Equations of Parallel Lines
A.2F Write Equations of Perpendicular Lines
A.2G Analyze Horizontal & Vertical Lines
A.3A Determine Slope from Multiple Representations

2nd Nine Weeks: 38 days (October 19 - December 18)

Unit 6: Arithmetic and Geometric Sequences (4 days)
A.12C Generate Arithmetic & Geometric Sequences
A.12D Write Explicit Rules for Sequences

Unit 7: Systems of Equations (8 days)
A.2I Write Systems of Equations from Representations
A.3F Graph Systems of Linear Equations
A.3G Estimate Solutions to Systems Graphically
A.5C Solve Systems of Linear Equations

Unit 8: Inequalities & Systems of Inequalities (10 days)
A.2H Graph Systems of Linear Inequalities
A.3D Graph Linear Inequalities in Two Variables
A.3H Graph Systems of Linear Inequalities
A.5B Solve Linear Inequalities in One Variable

Unit 9: Properties of Exponents & Radicals (3 days)
A.11A Simplify Radical Expressions
A.11B Apply Laws of Integer & Rational Exponents

Unit 10: Exponential Functions and Models (6 days)
A.9A Determine Domain & Range of Exponential Functions
A.9B Interpret Growth & Decay Parameters
A.9C Write Exponential Functions from Situations
A.9D Graph Exponential Functions & Identify Key Features
A.9E Create Exponential Models from Data

Course Resources

Students will use **STEMscopes (Accelerate Learning) Algebra 1** as the primary resource throughout the course. This platform provides interactive lessons, videos, practice problems, and assessments designed to support student understanding and mastery of Algebra concepts.

In addition to STEMscopes, students will have access to:

- **Graphing calculators** and online tools like **Desmos** for exploring functions and solving problems visually.
- **Classroom handouts** and worksheets for guided practice and review.
- **Supplemental videos and tutorials** shared by the teacher to reinforce learning.

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Access to Resources:

- STEMscopes is available online, and students will receive login credentials at the start of the course to access lessons and assignments from home or school.
- Graphing calculators will be provided during class, and students can use the Desmos app or website on their own devices.
- All digital resources, handouts, and supplemental materials will be shared through Google Classroom.

This combination of resources ensures students have multiple ways to engage with the material and get support when needed.

Grading Policy

According to Midland ISD Grading Policy:

1. The departmental grading policy will meet the district's framework with 60% of the grade being MAJOR GRADES and 40% being MINOR GRADES.
    a. Major grades will include such things as tests, projects, essays, long-term assignments, etc. There must be two or more grades in the Major category each grading cycle.
    b. Minor grades will include daily grades, homework, quizzes, etc.

Redo Policy

It is the goal of teachers to promote student success and when a student does not succeed on a summative assessment, a redo assessment may be requested. If a student receives a failing grade on a summative assessment, the student may request a redo assignment from his/her teacher.

The following criteria must be met in order to qualify for a redo assignment:

1. The student must have made a significant effort on the original test. Significant effort is defined as:
    - No randomly marked answers and
    - All work/questions are attempted and
    - Work is meaningful and represents deliberate thought

2. The student must complete a reasonable intervention measure as prescribed by a teacher with the aim of improving mastery of the topics covered within the allotted time.

3. The student will have 5 school days from the date of notification of the grade (via in class notification or online grading system) to request a redo assessment.

Once the above criteria are met the teacher will administer the redo at the prearranged time. The following do not qualify for redo:

1. Assessments that students refuse to initially take in class.

2. Redo not completed by the end of the grading cycle (The Wednesday prior to the end of the grading period on Friday).

The opportunity to redo/retake shall exist for major grades included in a student's average except for semester exams. The maximum grade awarded on a redo/retake is 75. Failure to complete the prescribed intervention and/or meet the timeline established by the teacher will result in the student receiving the original grade awarded. Teachers may choose to offer additional redo opportunities for minor or major grades at their discretion.

School-wide System of Communication

MFHS teachers have several ways to communicate with our MFHS families. Teachers will send out notifications every other week via Power Schools, Blackboard or Class Dojo to keep families informed of student academic progress and upcoming events.

Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!