



College Algebra

2021-2022

Mr. Crystal

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Teacher Website: Google Classroom

School Website: <http://mhs.msd134.org/>

Course Description

Algebra is the branch of mathematics that uses variables and other symbols to model real-life situations or general statements of relations. Some of the topics covered in this class include:

1. Solving Equations and Inequalities
2. Functions- Linear, Quadratic, Inverse, Exponential, Logarithmic
3. Polynomials

Course Objectives

Upon completion of this course, student should be able to:

- Solve linear, quadratic, polynomial, logarithmic, exponential, and rational equations
- Graph linear, quadratic, polynomial, logarithmic, exponential, and rational functions
- Calculate the probability of outcomes
- Simplify a variety of algebraic expressions

Course Units

Quarter 1	Quarter 2	Quarter 3	Quarter 4
Unit 1 Transformation Unit 2 Quadratic Functions	Unit 3 Polynomial Functions Unit 4 Composition of Functions & Piecewise Functions Unit 5 Technology	Unit 6 Rational Functions Unit 7 Exponential and Logarithmic Functions	Unit 8 Systems of Equations and Inequalities Unit 9 Conic Sections Unit 10 Trigonometric Functions

Materials

Buy a calculator appropriate to the class level; you will need a calculator for homework. If you can borrow or buy a TI-83 or better this can be to your benefit. We will learn in the beginning of January some tips, tricks, and programming that can be used on standardized test, i.e. SAT.

Now is a good time to purchase as calculators are on sale at many stores.

Students also need a folder or binder for notes or assignments. They will also need loose leaf paper for homework assignments.

Skyward Grading

Semester Scoring Method	Term Grades (MHS Policy)	Grading Scale (MHS Policy)
Summative Assessments (Tests) 64% Formative Assessments (HW & Quizzes) 16% End of Course Exam 20%	Fall Semester=80% End of Course Assessment=20% Spring Semester=80% End of Course Assessment=20%	A=90%-100% B=80%-89% C=70%-79% D=60%-69% F=Below 60%

Late Work / Make-Up Work / Retake Policy

◆ **Assignments and Notebooks:** Students will be given time to do independent practice on given material during class. This usually takes the form of assignments. All work not finished in class is then considered homework. All assignments are expected to be completed by the start of the next class meeting. Most all assignments will be graded with some minor assignments not graded. Late work/absent work will be accepted up to the Friday before the end of the quarter for full credit.

◆ **Quizzes and Tests:** Missed tests will be taken as soon as the student returns in the opportunity center. The student will take the test despite the fact that they may be missing a lesson that day. To avoid missing a lesson to make up a test. It is strongly encouraged that students make arrangements to take the missing test before school, after school, or during a study hall. With additional absences around test time, a test make-up will be arranged between the student and the teacher. Missed quizzes will need to be made up on the students own time before or after school with the possibility of being made up at home for some quizzes. In Order to do a retake on a test all homework corresponding for that section/objective must be complete or show some form of preparation for a retake. All retakes are due the Friday before the end of the Quarter.

Distance / Online Learning

Most all classes will be in the form of a “Flipped Classroom”. Meaning students are expected to watch videos and take notes at home before attending class the next day. During class time students working remotely are expected to join a GoToMeeting to ask questions and start on assignments. Approximately the first 30 minutes of class will be for working on assignments with access to the teacher. The last 30 minutes will be for learning activities for those that are physically present.

It is imperative that students attend class regularly. Students are required to log-on to the scheduled GoToMeeting classes on time and remain online until dismissed by their teacher. Regular attendance and tardy policies still apply during Online learning. Unexcused absences, tardies, and/or early departure from class will result in loss of attendance and/or participation points. Students are expected to keep up with daily assignments through Google Classroom.

Any quizzes or tests that are supposed to be given in class are expected to be taken during the scheduled assessment class time and may be monitored for cheating. Appropriate action will be taken for any academic integrity violations.

Classroom Rules and Procedures

- ★ Students are expected to adhere to the following rules in addition to those existing for MHS and MSD
 - ★ Be on Time.
 - ★ Bring all materials to class.
 - ★ Follow all staff member directives.
 - ★ Make an honest attempt to complete work and turn in what has been completed.
 - ★ Show proper respect to staff, classmates, and school property.
 - ★ Drinks must be closed top and NO glass in the classroom. Must also be kept away from technology.
 - ★ Silent, yet Mindful. You're allowed to have your cellphone in class. Please use it as the tool it is and not a distraction. If it appears to be a distraction I will intervene. Cell phones will be turned in during tests and given back after completion.
 - ★ Since mathematics is a class which requires students to be active learners, students must show all work on all assignments. Quizzes and tests turned in with no work will receive no credit.
 - ★ It is the student's responsibility to come in on their own time to obtain, complete, and check/correct assignments and make-up quizzes and tests that were missed when they are absent.
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Discipline

Positive Consequences

1. Verbal praise.
2. Notes or phone calls home.
3. Alternative preferred classroom activities.
4. A more successful learning experience.

Discipline Consequences

1. Verbal warning.
2. Verbal warning with one-minute detention after class.
3. Phone call and/or letter home to parents.
4. 15-minute detention assigned at teacher's convenience.
5. Phone call home and 30 minute detention assigned at teacher's convenience.
- 6 or more. **Discipline Report** to the principal's' office.

Severe Clause

Any student severely disrupting the class by fighting, showing overt defiance of instructions, vandalism, or by otherwise keeping the class from functioning will be immediately sent to the Principal.

Tardy Policy:

A tardy is defined as “the failure of a student to be in the assigned classroom when the tardy bell

starts ringing. Tardies will be counted by separate periods. The fourth and fifth tardy includes detention(s). Every five tardies result in an absence in that specific period. The count will start over at the beginning of each semester. See the student handbook for more details.

Academic Integrity (MHS Policy)

All work submitted by a student must represent his/her own ideas, concepts, and current understanding. All material found during research must be correctly documented/cited to avoid plagiarism. Any student caught cheating or plagiarizing on course assignments or exams will lose credit for that assignment or exam. The teacher will notify parents. Students may be subject to disciplinary action, including a parent conference.

Student & Parent Resources

School Website: <http://mhs.ms134.org/>

Google Classroom

Other Information

I am available before school to give you extra help as well as after school when I am not coaching. Coming in for help outside of time takes a lot of maturity and demonstrates you are willing to work hard. That kind of effort will be reflected in your grade. Most of the time, I arrive at school at 7:20. Please let me know when you are planning to come in so I can be available. Never be afraid to ask me for help. That’s what I’m here for.