

Algebra I Summer School Information Packet

Instructor: Matt Schilz

Room: S-9

Dates: June 3rd - June 30th

Times: 8:00am - 2:00pm

Contact: mattschilz@mvcs.org

Questions about the Class:

Please contact the teacher at mattschilz@mvcs.org or stop by before or after school. The main office staff will not be able to answer questions regarding the course.

Attendance:

Because summer school covers a full year of Algebra I in only 4 weeks, approximately two week's worth of material is covered every day. It is mandatory that students plan to attend every day of the session. **Over 2 absences in a summer school course results in no credit for the course.**

Required Materials:

Every student is required to bring the following items to class each day:

- iPad Textbook
- Notebook (given on the first day)
- Pencils
- Erasers
- Ruler
- Binder paper
- Graph paper
- Scientific Calculator (no graphing calculators)
 - Texas Instruments TI-30XS MultiView
 - Texas Instruments TI-30Xiis

Textbook Information:

HMH Fuse: Algebra I Common Core Edition for the iPad

Algebra I Text Instructions:

1. Purchase the App called HMH Fuse: Algebra I, from the App Store, on the iPad. It is free. It comes with one free chapter. There are 2 identical looking Apps - the only difference is that one is aligned to the Common Core Standards. Chose that one.
2. The other chapters are an in-App purchase, for a total of \$19.99.
3. Follow your teacher's instructions on which chapters to download, once you've made the in-App purchase.
4. **Warning:** this text app takes up lots of memory.

Course Description:

Algebra I is an introduction to the language and skills necessary for higher mathematics. Symbolic reasoning and calculations with symbols are central in algebra. Through the study of algebra, a student develops an understanding of the symbolic language of mathematics and the sciences. In addition, algebraic skills and concepts are developed and used in a wide variety of problem-solving situations. This course emphasizes the student's skills in dealing with linear, quadratic, and rational equations.

Course Objectives:

Upon the successful completion of this course the student will be able to:

1. Solve equations with one variable
2. Represent linear relationships as graphs, equations, tables, or verbal descriptions
3. Find solutions to a linear system of equations with 2 variables
4. Graph and factor quadratic equations and solves quadratic equations by factoring and completing the square
5. Use the basic laws of exponents to simplify expressions including expressions with square roots
6. Categorize relations as linear or non-linear by examining the rate of change
7. Interpret information presented in graphs.
8. Use measures of central tendency and dispersion to analyze data

Course Outline:

Unit 1: Equations
Unit 2: Inequalities
Unit 3: Function Concepts
Unit 4: Linear Functions
Unit 5: Systems of Equations and Inequalities
Unit 6: Exponents and Polynomials
Unit 7: Factoring Polynomials
Unit 8: Rational Expressions and Equations
Unit 9: Quadratic Expressions and Equations
Unit 10: Data Analysis

Grading:

Each student's semester grade (2 weeks \approx 1 semester) will be determined as follows:

Participation:	10%
Homework:	25%
Quizzes:	25%
Tests:	40%

Participation:

Students can earn up to 5 points per day (25 points per week). Points can be earned by doing the following:

- Being in the assigned seat before the bell rings at 8:00am
- Returning from breaks on time
- Taking neat and complete notes in the required notebook
- Staying focused on the material being taught throughout the day
- Being actively involved in all class activities
- Asking questions when needed

If a student is absent, he/she will automatically receive a zero for participation for that day. There is no way to make up the missing points.

Homework:

Because we will be covering about two week's worth of material in one day, **homework assignments are extremely important to complete each night**. Students should be expecting to have approximately 2-3 hours of work each night. Without completing the nightly practice, it would be very difficult to pass the course. Self-motivation and determination are a must!

In order to receive full credit on an assignment, a student must

- Attempt all of the assigned problems
- Show all work in pencil (assignments done in pen **will not** be accepted)
- Include first and last name, date, and the assignment in the heading
- Turn in the assignment on time
- Assignments that are 1 day late may receive a 50%. No late work accepted after 1 day

Quizzes:

Students should expect to have 2 quizzes (beginning and end of class) each day.

- *Notebook Quiz*: 4-8 problems with open notes checking the understanding of current concepts taught that day
- *Homework Quiz*: 4-8 problems checking on the previous day's homework understanding

Tests:

- Since there are 10 required chapters and only 4 weeks to complete those, students should expect to have 2-3 chapter tests per week.
- There will be a Semester 1 Final on Monday, June 16th and a Semester 2 Final on Wednesday, June 30th. Each final exam score will be equivalent to 2 regular tests and will be averaged into that category.
- If a student misses a test due to an absence, it is his/her responsibility to make it up on the next available office hour time slot after school. Failing to do so will result in a zero for the test.
- Calculators are *usually* allowed on both tests and quizzes. iPods and cell phones cannot be used in class as a calculator. Borrowing or sharing a calculator during class time is not allowed.

Breaks:

Students will be given a morning break each day around 9:30am and a lunch break around 11:45am. Food will be available for purchase during this time at the café.