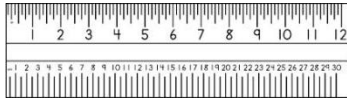


Linear Algebra



2018-2019

3 Trimesters = 1.5 credits



Ms. Bald

kbald@afsahighschool.com

651-259-4989

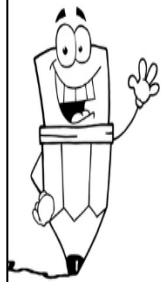
What do you call friends who love math?

Alge"bros"



On a daily basis, students in this course will use problem-solving strategies, as well as questioning, investigating, and analyzing skills. They will be asked to gather and construct evidence and communicate rigorous arguments justifying their thinking. Students will learn in collaboration with others while sharing information, expertise, and ideas. This course helps students develop multiple strategies to solve problems and recognize the connections between concepts.

BE RESPONSIBLE
BE RESPECTFUL
BE SAFE
BE YOUR BEST
#Be AFSA



TEAM WORK:
STUDENTS WILL WORK IN SMALL GROUPS ON A DAILY BASIS. WE ARE ALL SMARTER TOGETHER THAN ALONE. STUDENTS ARE EXPECTED TO FULLY PARTICIPATE IN THEIR TEAM: CONTRIBUTING IDEAS, ASKING QUESTIONS, HELPING OTHERS, AND FULFILLING YOUR TEAM ROLE.

TEAM ROLES:
FACILITATOR, TASK MANAGER, RESOURCE MANAGER, RECORDER/REPORTER

Course Outline

- Problem Solving
- Simplifying with variables
- Graphs and Equations
- Multiple Representations
- Systems of Equations
- Transformations and Similarity
- Slope and Association
- Exponents and Functions
- Angles and Pythagorean Theorem
- Surface Area and Volume

Each day please bring the following to class:

- Completed homework
- Toolkit (will be provided)
- Sharpened Pencil and Eraser
- Planner
- A positive attitude and willingness to try!

Mathematics Standards

- Understand the concept of function in real-world and mathematical situations, and distinguish between linear and nonlinear functions.
- Generate equivalent numerical and algebraic expressions and use algebraic properties to evaluate expressions.
- Represent real-world and mathematical situations using equations and inequalities involving linear expression. Solve equations and inequalities symbolically and graphically. Interpret solutions in the original context.
- Solve problems involving right triangles using the Pythagorean Theorem and its converse.
- Solve problems involving parallel and perpendicular lines on a coordinate system.
- Interpret data using scatter plots and approximate lines of best fit. Use lines of best fit to draw conclusions about data.

GRADING

Students will be graded on tests and quizzes (55%), classwork (25%), and homework (20%).

100 - 93	A	77 - 73	C
92 - 90	A-	72 - 70	C-
89 - 88	B+	69 - 68	D+
87 - 83	B	67 - 63	D
82 - 80	B-	62 - 60	D-
79 - 78	C+	59 - 0	F

Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time.

Thomas A. Edison

Homework

Students should expect to receive a homework assignment most nights. It is important to complete your homework each night as math concepts require continued practice. Homework needs to be completed and brought to class the day after it is assigned. Online homework assistance is available at www.cpm.org. Please attempt every problem. Students will be graded on effort/completion, as well as correctness. Homework questions will be taken in class before work is graded.

Textbook: Core Connections Course 3 (and toolkit) College Preparatory Mathematics Curriculum.

Students will be using textbooks in class. If you would like access to a textbook at home, one can be checked out, or you can request access to an ebook. See Ms. Bald with questions.

ACADEMIC HONESTY

All work should demonstrate each student's knowledge, skills, and understanding. Cheating (turning in work that is not your own) will not be tolerated and will result in a zero on the assignment or assessment!

To take credit for your team work you must contribute ideas, ask questions, help others, and fulfill your team role. If you have not done these things you should leave your name off your team paper.

Late/Make Up Work Policy: Homework will be checked daily and is expected to be completed on time. Partial credit will be given for assignments completed within one week of the date assigned. After that time an alternative assignment may be requested to make up missed points.

Students with excused absences will get two days to turn in make-up work. Late work will not be accepted for an unexcused absence. Please see Ms. Bald additional practice or extra credit.

LOOKING FOR EXTRA HELP:

1. Please feel free to contact Ms. Bald any time with questions or to set up time for additional help.
2. Visit class website for additional information or extra copies of homework/class materials.
3. Check out the great resources available at www.cpm.org.

