

Name: _____



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ALGEBRA

Core Connections Algebra 2019 – 2020

Course Basics

- Instructor: Ms. Auger cauger@afsahighschool.com
- Length of Course: 3 Trimesters
- Credits: 1.5
- Grades offered: 9 - 12
- Prerequisites: Core Connections 3 or equivalent

Course Description

Core Connections Algebra is designed to prepare students for higher-level mathematics courses and give them background to utilize more advanced algebra in their everyday lives. The specific topics include: linear relationships, quadratics, exponentials, inequalities, sequences, as well as functions and relations. This course will stress not only key mathematical skills, but also the importance of problem solving, reasoning, critical thinking, and teamwork. Students will solve, analyze, and critique other students' ideas as they work together to develop mathematical thought.

Course Outline

- | | |
|-----------------------------------|--|
| Ch. 1: Functions | Ch. 7: Exponential Functions |
| Ch. 2: Linear Relationships | Ch. 8: Quadratic Functions |
| Ch. 3: Simplifying and Solving | Ch. 9: Solving Quadratics and Inequalities |
| Ch. 4: Systems of Equations | Ch. 10: Solving Complex Equations |
| Ch. 5: Sequences | Ch. 11: Functions and Data |
| Ch. 6: Modeling Two-Variable Data | |

Required Materials

- **Calculator (TI-83 or TI-84 required)**
- Pencils
- 3-Ring Binder
- Loose leaf paper OR notebook
- Core Connections Algebra, College Preparatory Mathematics Curriculum

Recommended Material

- Graph Paper Notebook (Found at Target, Staples and Office Depot)
Please note that this notebook will make homework easier but is not required. If students have a regular notebook, they can complete graphs on separate graph paper.

If you need assistance purchasing required materials, please talk to me.

Student Sign: _____ Parent Sign: _____

State Standards Being Met by This Class

The state of Minnesota requires students to know certain material throughout their education and tests students' proficiency on these items through standardized tests and other measures including the MCA assessments. Thus it is important that students are aware of what they need to know throughout the course. Below are the standards this class will cover as they appear in the Minnesota State Standards Document:

1. Understand the concept of function, and identify important features of functions and other relations using symbolic and graphical methods where appropriate.
2. Recognize linear, quadratic, exponential and other common functions in real- world and mathematical situations; represent these functions with tables, verbal descriptions, symbols and graphs; solve problems involving these functions, and explain results in the original context.
3. Generate equivalent algebraic expressions involving polynomials and radicals; use algebraic properties to evaluate expressions.
4. Represent real- world and mathematical situations using equations and inequalities involving linear, quadratic, exponential and nth root functions. Solve equations and inequalities symbolically and graphically. Interpret solutions in the original context.
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Classroom Expectations

- **Respect your teacher and fellow classmates at all times**
- Attend class and be on time. **Late students may be docked 1 classwork point**
- **Bring all required materials to class.** A student who does not come to class with all required materials will be considered unprepared and may be **docked 1 classwork point.**
- Work with your team 😊
- No food or drink allowed in class with the exception of water
- No cell phones, i-pods, laptops, etc. allowed in the classroom. Distractions are not productive to learning
- Try every problem. You will not succeed if you never try!

Class Work Expectations

Students will be given daily in-class work to complete either individually or with peers. Students are expected to ask questions and complete this work during the class period. If group work is required, students are expected to participate with their group (fulfilling their team role and helping team members to complete work). Class work will be evaluated at the end of the class.

****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!**

Homework Expectations

Students should expect to receive a homework assignment **every night** because mathematical concepts require continued practice. Homework is to be completed and brought to class the day after it is assigned. Homework is graded on effort, completion, and correctness. Online homework assistance is available at www.cpm.org (under student or parent sections). In addition, homework quizzes may be given to ensure students are keeping up and understanding homework challenges.

Student Sign: _____ Parent Sign: _____

Test Corrections

There are no make-up tests. On each individual test every student has the opportunity to do test corrections. This involves correcting missed problems on the original test and learning from original mistakes. Test corrections will be due one week after students receive their tests back. Test corrections offer half points back up to 10 points.

Late Work Policy

Unless a student has an excused absence or has confirmed with me **before the due date**, late work will not be accepted beyond **one week** after the assignment is due. During this week the student will receive half credit for the assignment. Students with excused absences will get two days to turn in make-up work for full credit. **It is the student's responsibility to turn in work after an absence or to schedule a time to make up a test or quiz (within one week).**

Student Sign: _____ Parent Sign: _____

Grading

Students will be graded on their abilities in three aspects of mathematical achievement: classwork and in class participation (20%), homework (20%), and tests (60%). To receive a good grade in this class a student must work in class and at home.

100% A+	73%-77% C
93% - 99% A	70%-72% C-
90%-92% A-	68%-69% D+
88 - 89% B+	63%-67% D
83%-87% B	60% - 62% D-
80%-82% B-	59% and below F
78%-79% C+	

Other information can be found on the course website including what was covered in class each day, what we will be working on next, and homework assignments. I encourage parents and students to check this site regularly to keep up on homework and to see what a student missed if he or she was absent.

Tutoring is available at AFSA from 3-4 every day in all subject areas in the computer lab. Students are encouraged to take advantage of this free service that is offered to them.

Students will be required to smile and/or possibly laugh at some point during the course, if not daily. Failure to do so will result in grumpy students and teachers 😊

I have read and understand all aspects of this course syllabus. I will adhere to the one week late work policy, bring all required materials to class each day, and understand the test correction policy.

Signed: (Student) _____ (Parent) _____