

Algebra 2 Syllabus

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When students complete this course, they will be able to solve problems through algebraic manipulation, modeling, and graphing. Students will demonstrate the ability to articulate and justify their solutions both mathematically and in standard language. Students will be prepared to take a Math Analysis/Pre-Calculus course, either in high school or at the college level. Graphic calculators will be used extensively in the course to help students explore and apply functions. (The TI-83+ and Desmos online calculators will be used for classroom demonstrations.) It is highly recommended that you buy your own graphing calculator. These calculators will come in very handy for later math courses - especially in college. Students are able to check out a calculator from BUT SUPPLIES ARE LIMITED, so please act quickly. Rental cost is \$15.

Textbook *College Preparatory Mathematics (CPM) – Core Connections Algebra 2*

Chapters and topics covered:

1. Investigations and Functions (Ch 1)
2. Sequences (Appendix A)
3. Exponential Functions (Appendix B)
4. Transformations of Parent Graphs (Ch 2)
5. Solving and Intersections (Ch 4)
6. Polynomial Functions (Ch 8)
7. Combinatorics/Probability
8. Inverses and Logarithms (Ch 5/6)
9. Equivalent Forms (Ch 3)

Required Materials Needed in class by Friday, September 8th:

- * Notebook for math only
- * A math folder OR binder for holding notes
- * Graphing Calculator (TI-83 or TI-84 preferred)
- * Pencils or Pens

Assignments

In this class, we will have daily classwork points; and students will need to complete a standards packet each unit as their homework. Since so much of today's workforce depends on a knowledge of teamwork, most classwork will be done in teams. The goal of all formative work (classwork and homework) is to practice the math content and receive feedback. A goal for this class is to *make mistakes* so you can learn from them.

<u>Grade Distribution</u>		<u>Grading Scale</u>		
Formative	15%	A 93%-100%	A- 90%-92%	
---Standard Checks	10%	B+ 87%-89%	B 83%-86%	B- 80%-82%
---Assignments	5%	C+ 77%-79%	C 73%-76%	C- 70%-72%
Summative	85%	D+ 67%-69%	D 63%-66%	D- 60%-62%
---Individual Tests	70%	F 0%-59%		
---Final Exam	15%			

Tests

Each chapter will usually have numerous small standard checks, a team test, and an individual test. “Toolkits” may be used on the team test and individual test. Individual tests may be retaken **one time** under the following conditions:

1. The student has passed **all** Standard Checks for the chapter.
2. The student fixes all mistakes made on the test after school with one of the Algebra 2 teachers. These fixes will need to be done on a separate sheet of paper and turned back in with the test.
3. The student will need to have the review sheet and standards packet complete as well as at least 80% of the formative classwork complete and correct.

Attendance After an absence, *it is the student's responsibility to obtain any missing work and information*. The Google Classroom will contain any missing handouts (notes, activities, homework assignments) as well as occasional mini video lessons. Class time will not be provided to make up missing tests, since a student will need that day's instruction. The class will follow the school's policy on tardiness and absenteeism (see student handbook).

Classroom Expectations In class, students are expected to be mentally present in addition to physically present in the classroom. This includes minimizing technological distractions: Chromebooks will only be used when explicitly instructed by the teacher. Cell phones are not allowed in class--including as a calculator! Students may have food and drink, but should keep it to themselves and not share it around the room.

Additional Resources/Extra Help Students are encouraged to set up a time to come in for help during my offices hours or during academic advisory time. My office hours will be by appointment. Students can email me if they would like to meet outside of class. *For Trimesters 2 and 3 my office hours will only be Thursdays and Fridays - except for special circumstances.*

The school will provide you with a bus token for any day you stay after school.

Students may also visit the [textbook website](#) for homework help.