

# 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. Calculators will be available in Algebra 2 classrooms, but if you want to buy one we suggest TI-83 or TI-84.

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

Chapters and topics covered:

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

**Required Materials** Needed in class by Friday, September 6th:

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

## 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.

<b>Grade Distribution</b>		<b>Grading Scale</b>			
<b>Formative</b>	<b>15%</b>	A	93%-100%	A-	90%-92%
---Standards Packets, Review Sheets, Standard Checks, Team Tests		B+	87%-89%	B	83%-86%
<b>Summative</b>	<b>85%</b>	C+	77%-79%	C	73%-76%
---Individual Tests		D+	67%-69%	D	63%-66%
---Final Exam		F	0%-59%	D-	60%-62%

### Tests/Retakes

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 completed all formative work for the chapter.
2. The student fixes all mistakes made on the test after school or in seminar 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. Retakes are done outside of normal class time, and must be completed before the next chapter test.

**Attendance** It is very important to be in class each day! After an absence, *it is the student's responsibility to obtain any missing work and information*. 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). All materials will be in the classroom in folders labeled by date. Find anything you missed there.

**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 office hours or during academic advisory time. My official office hours will be:

After school (2:37-3:15) Tuesday and Thursday.

If those times do not work, students can set up individual appointments with me. 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.