

# Algebra 2A(CPM) Course Syllabus

## I. Contact Information and “Office Hours”

See Individual teachers for schedule

Homework Help: [open-ebooks.cpm.org](http://open-ebooks.cpm.org)

## II. Course Description - Algebra 2A opens with an introduction to functions including domain and range. We discuss transforming parent functions and specialize in quadratic functions. We will simplify rational expressions by factoring and perform operations (add, subtract, multiply, divide) on rational expressions.

## III. Course Objectives (BIG IDEAS):

Unit 1: Using the graphing calculator to explore functions, including investigating the domain, range and points of intersection.

Unit 2: Transforming parent functions with emphasis on quadratics. Other functions will be investigated, including piecewise functions.

Unit 3: Rewriting expressions and solving equations, with a focus on rational functions and expressions.

## IV. Course Materials

- PAPER / Spiral Notebook for math only: Either a notebook or loose leaf paper. Organize class work, and practice (homework)
- Folder / binder for math only: Organize all math assignments and notes
- Calculator (scientific calculator): Finish practice (homework) outside of school
- "Planner" type device: Write down assignment due dates and stay organized ☺
- Good Attitude: We'll all make mistakes or change our mind in the process of learning. A good attitude will make this process go smoother.

## V. Grading

Homework = 25%

QUIZ = 25%

TEST/PROJECT = 50%

Daily expectations:

Ready – Homework complete, materials out, prepared to learn

Respect – Follow instructions, study team expectations

Responsible – Take care of materials, help others

Test Corrections are available to all students.

May earn points back based on demonstrating mastery of missed objectives.

Requires at least 2 appointments:

~1<sup>st</sup> appointment = discuss mistakes on original test and extra practice material provided. Any number of appointments necessary to gain confidence and learn

~2<sup>nd</sup> appointment = demonstrate mastery by completing NEW problems

No “late work” is accepted for credit.

## VI. Course Schedule

Weeks 1 – 4: Unit 1 Exploring Functions

Weeks 5 – 8: Unit 2 Transformations of Functions

Weeks 9 – 12: Unit 3 Equivalent Expressions

**Another great way to expand learning is** Khan Academy Algebra II Course

(<https://www.khanacademy.org/math/algebra2> ). It could be used to review topics, to extend to future content, and enrich Algebra 1 as a whole. It is also a great way to review for SAT. This is not mandatory.

### Other options are:

**CPM (Algebra links) which are from our present curriculum.**

Parent Guide ... Examples, practice problems, and answers.

[https://pdfs.cpm.org/CoreConnections/ParentGuide/cca/CCA%20PG\\_full\\_version.pdf](https://pdfs.cpm.org/CoreConnections/ParentGuide/cca/CCA%20PG_full_version.pdf)

Checkpoint problems with examples, practice problems, and answers (reference section of ebook ...this section may not open great on a phone. A computer might be better)

<https://ebooks.cpm.org/bookdb.php?title=cca&name=reference.checkpoints&type=tcheckpoints>

## **Miscellaneous**

### **Absent Work**

Getting, completing, and understanding the absent work is the **student's** responsibility. You can find absent work in the bright yellow folder at the front of the classroom. I am available before and/or after school for help with absent work, but it is not likely that I will be able to help you during class.

### **Phones/Ipods**

On occasion you may be allowed to listen to music or use your phone as a calculating device or to check Skyward. You will know when you have permission to do so. It is NEVER appropriate to use your phone for any other reason (texting, social networking, etc.). If you are using your phone inappropriately, it will be confiscated until the end of the day. You may not record or photograph me without my permission.

### **Math Lab**

The Math Lab will be open before and after school on Monday, Tuesday, and Thursday. As well as before school on Friday mornings. This is a place for you to get help with homework, ask questions, in addition to make-up tests and quizzes. Please consider going for ANY REASON!!! Late Bus is available on Tuesday's and Thursday's, sign up by noon with Mr. Wing in the front office.

## VII. Procedures and Routines

$\leq$  Pet Peeves  
a) Lining up at door      b) Packing up early      c) NEGATIVITY

$\Sigma$  Vocabulary  
a) Shut Up      b) Sucks

$\Rightarrow$  Appropriate Alternatives:  
1) Please be quiet      1) I find that to be displeasing  
2) Shhhhh please      2) I am not a fan

$\cong$  Where to go in case of:

### a) Fire

### b) Tornado

Go out the \_\_\_\_\_ door to the stadium.      \_\_\_\_\_ bathroom

Go up the \_\_\_\_\_ bleacher entrance.      near \_\_\_\_\_ room

Sit in section #9 in the \_\_\_\_\_ rows.

### $\Delta$ Hall Passes

It must be an EMERGENCY. This means it absolutely CAN'T WAIT until class is over.

I must ask for the bathroom badge AND \_\_\_\_\_.

Hall passes will **not** be issued to conduct "business" that should be done during passing time—you have six minutes! Good luck and plan wisely. If you are late because you choose to get your homework in your locker you must take a tardy. This privilege may be revoked at any time if it is abused.

$\pi$  Food, Drink, & Water are allowed as long as \_\_\_\_\_ & \_\_\_\_\_.

$\sqrt{\phantom{x}}$  "I need evidence that you are listening"

This is what the teacher will say when we are supposed to LISTEN.

We should finish our SENTENCE only.

This means close my MOUTH and EYES ON the speaker.