

# Algebra 1A(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 1A opens with an introduction to functions. We then develop the mathematical definition of a function and learn how to use function notation. Linear functions are the main focus of the trimester.

## III. Course Objective (BIG IDEAS)

Unit 1: Functions - investigate the growth patterns of real-life situations, explicit description of graphs, definition of a function, function notation, and domain and range

Unit 1.5: Algebra Tiles - Solve problems using manipulatives and other methods

Unit 2: Linear Functions – connect geometric tile patterns to slope and y-intercept, measuring steepness of a line, slope as speed AND rate of change, complete the multiple representations web (using graphs, tables, equations and stories slope-intercept form

Unit 3: Simplifying and Solving - Simplify expressions with exponents (positive and negative), use algebra tiles to solve equations, multiplying binomials using the distributive property, changing forms (solving for a variable)

## IV. Course Materials

- **Folder / binder:** Organize all math assignments and notes (math only)
- **Spiral Notebook:** Organize journal entries and class work
- **Calculator** (scientific calculator): Finish homework outside of school
- **"Planner" type device:** Write down assignment due dates and stay organized ☺
- **Writing Utensil:** Pencils with eraser (pencils available to purchase for \$0.25)
- **Good attitude:** We'll all make mistakes and 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 and 1.5 Functions and Algebra Tiles

Weeks 5 – 8: Unit 2 Linear Functions

Weeks 9 – 12: Unit 3 Simplifying and Solving

**If a student would like to review or expand their knowledge in the areas they are studying, Google or YouTube search the topics listed in the course objectives.**

**Another great way to expand learning is Khan Academy Algebra 1 Course**  
(<https://www.khanacademy.org/math/algebra>). 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 1 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>