

Algebra 1C(CPM) – Course Syllabus

I. Contact Information and “Office Hours”

See Individual teachers for schedule

Homework Help: open-ebooks.cpm.org

II. Course Description - Algebra 1C focuses on exponential and quadratic functions.

III. Course Objective (BIG IDEAS)

Unit 7: Exponential Functions - Investigate the growth of exponential functions, simplify and rewrite exponential expressions (include fractional exponents)

Unit 8: Quadratic Functions - Investigate changing quadratics written as a sum into its product (factoring). Solve quadratic equations using the Zero Product Property.

Unit 9: Solving Quadratics and Inequalities - Solve quadratic equations using the Quadratic Formula. Represent solutions to one-variable inequalities on a number line and solve a system of inequalities.

(If time allows) Unit 10: Solving Complex Equations - Investigate categorical data represented on a two-way table. Solve equations involving fractions, square roots, exponents, and absolute values. Solve quadratic and absolute value inequalities.

IV. Course Materials

- Folder / binder: Organize all math assignments and notes (math only)
- Calculator (scientific calculator): Finish homework outside of school
- "Planner" type device: Write down assignment due dates and stay organized ☺
- Writing Utensil: Pencils with eraser
- 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:

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

~2nd appointment = demonstrate mastery by completing NEW problems

No “late work” is accepted for credit.

VI. Approximate Course Schedule

Weeks 1 – 3: Unit 7

Weeks 4 – 6: Unit 8

Weeks 7 – 9: Unit 9

Weeks 10 – 12: Unit 10

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 leaning 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

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>