

# Algebra I Syllabus

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## Instructor

Teresa Weber

## Phone

757-537-6348

## Email

*For questions*

[lroomtutoring@gmail.com](mailto:lroomtutoring@gmail.com)

## Homework submission

[lroomhomework@gmail.com](mailto:lroomhomework@gmail.com)

## Class/Office Location

Zoom meeting

ID 7575376348

Pass code 1118

## Class Times

Tuesdays 9:00 – 11:00 am

Thursdays 9:00 – 10:00 am

## Office Hours

Fridays by appointment

## Course Overview

This class will consist of a two-hour and one-hour live zoom class each once a week and 3 – 4 homework assignments to be completed over the course of the week.

Students will be expected to take notes and work examples during class. This is a live class, and everyone will be able to ask questions during it. Random notebook checks each week as part of their grade will be done. I will periodically call on students to answer questions. Parents, if your student is not comfortable with me calling on them please let me know in advance so I do not call on them. All assignments will be due the day before the next class. Please turn them in on time. Math builds on itself so if you get behind it will be more difficult for you to catch up and understand the content.

## Text

All Things Algebra by Gina Wilson

The week before needed I will e-mail out each unit of notes and assignments. Students need to print, 3-hole punch, and put them in a binder with dividers for each unit.

## Course Materials

- Binder with dividers
- Printer to print student pages
- Pencil
- Ruler
- Graph paper
- 4 different colors of highlighters

## Course Schedule

<b>Week of</b>	<b>Subject</b>	<b>Practice Problems</b>
Aug. 31	Unit 1 The real number system, properties, order of operations, absolute value	HW 1, 2, 3, 4
Sept 7	Evaluating expressions, matrices, combining like terms, simplifying expressions	HW 5, 6, 7, 8
Sept 14	Translating expressions/equations/inequalities, solving 2-step equations, solving and graphing inequalities	HW 9, 10, 11, test
Sept 21	Unit 2 Multi-step equations, infinite and no solution equations, algebraic proportions	HW 1, 2, 3, 4
Sept 28	Absolute value equations, multi-variable equations, word problems	HW 5, 6, 7, 8
Oct 5	Equations and word problems, multi-step, compound, and absolute value inequalities,	HW 9, 10, 11, 12
Oct 12	Review	HW 13, 14, Study Guide (SG),test
Oct 19	Unit 3 Relations, functions, range, domain, real world graph, equations and functions, Function notation	HW 1, 2, 3, 4
Oct 26	Zeroes of functions, arithmetic sequences	HW 5, 6, SG, test
Nov 2	Unit 4 Slope formula, slope intercept, standard form, x- and y- intercepts	HW 1, 2, 3, 4
Nov 9	Vertical/horizontal lines, point-slope formula	HW 5, 6, 7, 8
Nov 16	Parallel/perpendicular lines, Linear equation word problems	HW 9, 10, 11, 12
Nov 30	Scatter plots, line of best fit, and linear regression	HW 13, SG, test
Dec 7	Unit 4b	HW 1, 2, 3, test

<b>Week of</b>	<b>Subject</b>	<b>Practice Problems</b>
	Direct variation, inverse variation	
Dec 14	Unit 5 Solving systems of equations	HW 1, 2, 3, 4
Jan 4	Solving systems of equations, word problems, Solving by matrices	HW 5, 6, 7, 8
Jan 11	Linear inequalities, Word problems, review	HW 9, 10, 11, test
Jan 18	Unit 6 Monomials, power rule, geometric applications, quotient rule	HW 1, 2, 3, 4
Jan 25	Negative exponents, scientific notation, Graphing exponential functions, exponential growth and decay applications	HW 5, 6, 7, 8
Feb 1	Geometric sequences, Simplifying radicals, square and cube roots, monomial square roots	HW 9, 10, 11, test
Feb 8	Unit 7 Multiplying monomials, binomials, and trinomials	HW 1, 2, 3, 4
Feb 15	Dividing and factoring polynomials	HW 5, 6, 7, 8
Feb 22	Factoring polynomials	HW 9, 10, 11
March 1	Factoring, dividing polynomials	HW 12, 13, SG, test
March 8	Unit 8 Quadratic equations, Quadratic roots, discriminant	HW 1, 2, 3, 4
March 15	Solving quadratics	HW 5, 6, 7, 8
March 22	Solving quadratics	HW 9, 10, 11, 12
March 29	Applications and review	HW 13, 14, 15, test
April 5	U 9 Basic stats review, normal distribution, z-score	HW 1, 2, 3, quiz
April 19	U 10 Simplifying, multiplying, and dividing rational expression	HW 1, 2, 3

<b>Week of</b>	<b>Subject</b>	<b>Practice Problems</b>
April 26	Adding/subtracting rational expressions, applications	HW 4,5, 6
May 3	Radical equations, review	HW 7, 8, SG, test
May 10	Unit 11 Simplifying radicals, adding/subtracting/ multiplying radicals	HW 1, 2, 3
May 17	Dividing radicals, Solving radical equations	HW 4, 5, 6
May 24	Review	HW 7, 8, SG, test

\*\*Schedule is subject to change depending on how the students are doing in the class

### **Homework Submission**

Take a photo or scan in your assignments then save to a PDF and name it with your last name, first name, and assignment for example: **Weber Teresa U1 HW 2**. Please e-mail your homework to [1roomhomework@gmail.com](mailto:1roomhomework@gmail.com). In the subject line put your class. Example: Prealgebra.

### **Late Assignments**

Assignments turned in after the due date will automatically have 10 points deducted unless arrangements have been made prior to the due date.

### **Calculator**

Calculator use will be up to your parent. If you struggle with general math facts than use a calculator. If you do not struggle with facts than do not use a calculator unless with large numbers. Remember if you do not use it you lose it. It will be faster to not use a calculator if you know your facts. If you need a calculator for pre-algebra through Geometry, I recommend the Ti 30XS.

### **Grading**

All assignment and tests will be returned via e-mail as soon as they are graded. Homework is worth 1/3 and tests 2/3 of your final grade. I will send out grades after each quarter throughout the year.

### **Tutoring**

Need extra help? I will hold office hours for that purpose on Fridays. Please e-mail me no later than Thursday to schedule some time. If several are needing extra help, I will try to group you with other members from your class. If one has a question usually others will have the same question. If you just have a question and don't want or need to meet with me, please e-mail me.

**Extra credit**

The pages labeled as quizzes will be extra credit. Any extra credit needs to be turned in before the unit test. This will give you more practice and help raise your grade if you are struggling.