

Pre-Algebra Syllabus

Instructor

Teresa Weber

Phone

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Email

For questions

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Homework submission

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Class/Office Location

Zoom meeting

ID 7575376348

Class Times

Tuesdays 10:00–12:00 am

Office Hours

Fridays by appointment

Course Overview

This class will consist of a two-hour live zoom class 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

Week of	Subject	Practice Problems
Sept 2	Unit 1 Integer, integer operations, absolute value, simplifying fractions, converting fractions/decimals/percents, add/subt fractions	HW 1, 2, 3
Sept 9	mult/diving fractions, Exponents, squares, square roots, cubes, cube roots	HW 4, 5, 6
Sept 16	scientific notation, order of operations, Evaluating expressions,	HW 7, 8, 9
Sept 23	real numbers and their properties	HW 10, 11, test
Sept 30	Unit 2 Translating expressions, distributing, and combining like terms	HW 1, 2, 3
Oct. 7	factoring linear expressions, Add, sub, mult, div monomials	HW 4, 5, 6
Oct 14	Powers of monomials, operations with scientific notation	HW 7, 8, 9
Oct. 21	Operations with scientific notation, intro to polynomials	HW 10, 11, test
Oct 28	Unit 3 One-step equations, rational equations, Two-step equations	HW 1, 2, 3
Nov 4	solving using square roots, multi-step equations	HW 4, 5, 6 EC – quiz 3-1
Nov 11	special cases, solving with fractions, Translating and solving equations	HW 7, 8, 9 EC – quiz 3-2
Nov 18	applications for equations	HW 10, 11, 13 EC - HW 12; quiz 3-3
Dec 2	solve and graphing inequalities Unit 4 Ratios	HW 14, 15, test U 4 HW 1 EC – quiz 3-4
Dec 9	proportions	HW 2, 3, 4 EC – quiz 4-1

Week of	Subject	Practice Problems
Dec 16	Solving proportions, word problems and scale drawings, Similar figures	HW 5, 6, 7
Jan 6	indirect measurements, percent portions, Percent equations, discount markup, sales tax	HW 8, 9, 10 EC – quiz 4-2
Jan 13	percent change, simple interest, Coordinate plane Unit 5	HW 11, 12, test EC quiz 4-3 HW 1
Jan 20	Graphing, slope	HW 2, 3, 4 EC – Quiz 5-1
Jan 27	Slope, standard form	HW 5, 6, 7 EC quiz 5-2
Feb 3	vertical/horizontal lines, Linear/nonlinear equations, slope intercept form applications	HW 8, 9, 10 EC – quiz 5-3
Feb 10	proportional relationships Unit 6 Solving systems of equations	HW 11, test U 6 HW 1, 2
Feb 17	Solving systems of equations	HW 3, 4, 5 EC – Quiz 6-1
Feb 24	Solving system of equation applications	HW 6, 7, test EC – quiz 6-2
March 3	Unit 7 Angles and their relationships	HW 1, 2, 3
March 10	Parallel lines, triangles, Pythagorean theorem	HW 4, 5, 6 EC – quiz 7-1
March 17	Pythagorean theorem, quadrilaterals, polygons	HW 7, 8, 9 EC – quiz 7-2
March 24	Reflections, translations, rotations	HW 10, 11, 12 EC – quiz 7-3
March 31	Dilations, transformation review	HW 13, 14, test EC – quiz 7-4

Week of	Subject	Practice Problems
April 7	Unit 8 Area, perimeter, and circumference of plane figures, circles, and composite figures	HW 1, 2, 3
April 21	Area of shaded regions, 3D figures, volume of prisms/cylinders/pyramids/cones	HW 4, 5, 6 EC – quiz 8-1
April 28	Surface area prisms/cylinders/pyramids/cones	HW 7, 8, 9 EC – quiz 8-2
May 5	Effects of changing dimensions,	HW 10, 11, 12 EC – quiz 8-3
May 12	volume of spheres, perimeter and area of similar figures, volume and surface area of similar solids, probability	HW 13, 14, test U 9 HW 1
May 19	U 9 Probability, counting outcomes	HW 2, 3, 4 EC – quiz 9-1
May 26	biased and unbiased examples, mean/median/mode/range	HW 5, 6, 7 EC – quiz 9-2
June 2	Mean absolute deviation, box-and-whisker plots	HW 8, 9, 10, 11, test EC – quiz 9-3

**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. 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 $\frac{1}{3}$ and tests $\frac{2}{3}$ 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.