

Geometry Syllabus

Instructor

Teresa Weber

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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

Mondays 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. 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	assignments
Aug. 30	Unit 1 Points, lines, planes, segment addition, distance, and midpoint formula	HW 1, 2, 3 Learn the definitions Use Quzilet.com to help EC – quiz 1-1
Sept 13	Angle relationships and angle constructions	HW 4, 5, 6 EC – quiz 1-2
Sept 20	Angle constructions	constructions, study guide (SG), test EC – quiz 1-3
Sept 27	Unit 2 Inductive reasoning, conjectures, counter examples, compound statements, conditional statements	HW 1, 2, 3 EC – quiz 2-1
Oct 4	Venn diagrams, deductive reasoning, properties of equalities, algebraic proofs	HW 4, 5, 6 EC – quiz 2-2
Oct 11	Segment and angle proofs	HW 7, 8, SG, test EC – quiz 2-3
Oct 18	Unit 3 Parallel lines, transversals, angles, proving lines parallel	HW 1, 2, 3 EC – quiz 3-1
Oct 25	Slope, equations of lines	HW 4, 5
Nov 1	Review	HW 6, SG, test EC – quiz 3-2
Nov 8	Unit 4 Classifying triangles, angles of triangles, isosceles and equilateral triangles	HW 1, 2, 3 EC – quiz 4-1
Nov 15	Triangle congruence	HW 4, 5, 6 EC – quiz 4-2
Nov 29	Proofs review	HW 7, SG, test EC – quiz 4-3

Week of	Subject	assignments
Dec 6	Unit 5 Triangle midsegments, perpendicular and angle bisectors, centers of triangles	HW 1, 2, 3 EC – quiz 5-1
Dec 13	Centers of triangles, triangle inequalities	HW 4, 5, 6 EC – quiz 5-2
Jan 3	Triangle inequalities and review	HW 7, SG, Test
Jan 10	Unit 6 Ratios, proportions, similar figures, proving triangles	HW 1, 2, 3 EC – quiz 6-1
Jan 17	Parallel lines, parts of similar triangles	HW 4, 5, SG, Test
Jan 24	Unit 7 Interior & exterior angles of polygons, parallelograms, rectangles	1, 2, 3 EC – quiz 7-1
Jan 31	Rhombi, squares, quadrilaterals, trapezoids	HW 4, 5, 6 EC – quiz 7-2
Feb 7	Kites, review	HW 7, SG, Test
Feb 14	Unit 8 Pythagorean theorem, special and similar right triangles, Geometric mean	HW 1, 2, 3 EC – quiz 8-1
Feb 24	Trigonometry, angle of elevation and depression	HW 4, 5, 6 EC – quiz 8-2
Feb 28	Law of Sines and cosine	HW 7, 8, 9 EC – quiz 8-3
March 7	Review	SG, Test
March 14	Unit 9 Reflections, translations, rotations	HW 1, 2, 3
March 21	Symmetry, dilations	HW 4, 5, SG, test
March 28	Unit 10 Circles Area, circumference, central angles, arc measures, arc lengths, chords	HW 1, 2, 3 EC – quiz 10-1
April 4	Inscribed angles, tangents, angles formed by chords, secants, tangents	HW 4, 5, 6 EC – quiz 10-2

Week of	Subject	assignments
April 11	Segment lengths formed by chords, secants, tangents, equations of circles	HW 7, 8, SG, test
April 25	Unit 11 Area of plane figures, sectors, composite figures, areas of shaded regions	HW 1, 2, 3
May 2	Area of regular figures, surface area of prisms, cylinders, pyramids, cones	HW 4, 5, 6 EC – quiz 11-1
May 9	Volume of prisms, cylinders, pyramids, cones	HW 7, 8, 9 EC – quiz 11-2
May 16	Volume and surface area of spheres, similar figures and solids, effects of changing dimension	HW 10, 11, 12
May 23	Review	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 lroomhomework@gmail.com. In the subject line put your class. Example: Geometry.

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.