

2020-2021 High School Geometry Syllabus

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My Office Hours: M-F 4-5 pm, All contact outside office hours will be returned within 24 hours.

If you wish to contact me during school hours, please send me an email, do not call or text.

CVA Vision and Mission

Vision: It is the Vision of CVA to equip each student with a quality Christian education firmly based in the Word of God, so that they are fully prepared to take the love of God into all the earth.

Mission: It is the Mission of CVA to educate our students, using biblically sound teachings, in order that they may impact their world for Christ. We do this by utilizing our hybrid program to make individualized education plans. This is accomplished through on-campus, online, and home education programs.

Welcome to Geometry!

Welcome to Geometry! Geometry is an art that aspires to create beauty in the world of natural things. Through the study of shapes and configurations, students will understand and classify spaces in various mathematical contexts.

Course Description

Primarily Used Text: D.C. Heath, Geometry An Integrated Approach

Students will acquire and demonstrate knowledge of concepts, definitions, properties, and applications of topics as well as develop the computational skills and strategies needed to solve problems. Students will develop critical thinking and decision making skills by connecting concepts to practical applications. Topics covered include the language of geometry (points, lines, planes, and angles,) reasoning and proofs (paragraph, two-column, flow, indirect, and coordinate), parallel and perpendicular lines, congruent triangles, applications of congruent triangles, quadrilaterals, similarity, right triangles, circles, polygons and area, surface area and volume, coordinate geometry, and transformations.

Course Objectives

By the end of this course, students will be able to:

- Recognize the basic principles of Geometry.
- Use deductive reasoning and inductive reasoning through writing proofs.
- Prove that lines are either parallel or perpendicular
- Perform translations, reflections, rotations, dilations, and compositions of transformations
- Apply theorems to prove congruent triangles.
- Use properties of similarity to complete proofs.
- Calculate lengths of triangle components.
- Provide properties of quadrilaterals.
- Apply the Pythagorean Theorem and other trigonometry functions.
- Calculate measures of a circle.
- Calculate circumference, area, and volume of circular shapes.

★Classroom Rules★

Refer to the CVA student handbook for a complete listing of school rules, policies, and procedures.

★Regular classroom rules apply: Respect your teacher and peers at all times, turn in all assignments in a timely fashion, come prepared, and ready for class.

★Keep class discussions both in the classroom and online respectful.

★Always remember we represent Christian Victory Academy at all times, but also remember that we are representatives of God, and we all always conduct ourselves accordingly.

★Special Rules★

All math work must be completed on 1/4in graph paper. No math assignments will be accepted on line paper. Students should format their work by dividing their paper into 2 columns. One side will have their answers and the other side should show all of their work. This will be demonstrated in class on the first day.
This does not apply to essays and research projects unless otherwise noted.

★Course Materials★

Students are expected to have all the required materials when they come to class.

Plastic 2-pocket folder with prongs.	Pack of 1/4 in graph paper.	Pencils/Pens/Eraser
TI84 Plus CE Calculator	Index Cards/Binder Rings	Colored Pencils
Ruler	Protractor with a detachable arm.	Compass with center wheel.

Grading

✓ Tests/Quizzes: 50%

✓ There will be at least one test and quiz per unit.

- ***Important!*** Tests and Quizzes may be taken from any part of the unit including sidebar notes, vocabulary and handouts both physical and digital. The student is responsible for reading all the assigned material.

✓ Projects: 25%

✓ Special Projects

✓ Assignments: 25%

✓ Book Work ✓ Worksheets

Google Classroom

This year we will be using Google Classroom and it will be the central hub of all your assignments and other useful materials.

- ★-All Grades will be posted on Google Classroom★
- ★All assignments will be posted on Google Classroom★
- ★All announcements/handouts will be posted on Google Classroom★
- ★Google slides will be posted on Google Classroom★
- ★Videos will be posted on Google Classroom★

During our first class meeting, I will be giving you a guided tour of Google Classroom, in order to ensure that all students are able to sign up and get logged into the class. I will also teach you how to turn in assignments, view additional materials, and find your grades.

★Signing in to Google Classroom.

1. Go to classroom.google.com
2. Log in with your School Gmail account
3. Click the + sign at the top right-hand corner
4. Click "Join Class"
5. Type in the classroom code which I will give you on the first day of school.

Note: In the event of a student's absence it is the responsibility of the student to log in to Google Classroom to find the notes, outlines, videos, handouts, and assignments that they missed and complete all assigned work.