
Geometry Course Outline



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*"...but in your hearts honor Christ the Lord as holy, always being prepared to make a defense to anyone who asks you for a reason for the hope that is in you; yet do it with gentleness and respect,
... " I Peter 3:15*

GEOMETRY COURSE DESCRIPTION

2020 Geometry, Two Semesters

Prerequisite: Minimum grade of "C" in Algebra I or qualifying score on math assessments.

This course applies a deductive approach to learning the principles of geometry. Emphasis is put on problem solving, visual patterns and proofs. Topics covered are angles, congruent and similar triangles, circles, polygons, area, volume, and Pythagorean Theorem. UC/CSU

*"Mathematics is the gate and key to the sciences."
-Roger Bacon*

GEOMETRY COURSE OBJECTIVES

- The student will demonstrate the ability to use fundamental concepts of geometry, including definitions, basic constructions, and tools of geometry.
- The student will demonstrate the ability to apply the properties of angles, parallel and perpendicular lines.
- The student will demonstrate the ability to apply definitions and theorems of triangles.
- The student will demonstrate the ability to explore and verify properties of polygons.
- The student will demonstrate the ability to identify similar triangles and solve problems using ratios and proportions.
- The student will demonstrate the ability to analyze the effects of transformations.
- The student will demonstrate the ability to find one- and two- dimensional measurements relating to circles and polygons.
- The student will demonstrate the ability to find two- and three- dimensional measurements related to geometric solids.
- The student will demonstrate the ability to solve problems using properties of right triangles, including trigonometric ratios.

- The students will be able to demonstrate proficiency in calculating different probabilities and different methods of counting.

GEOMETRY COURSE PHILOSOPHY

Geometry is uniquely suited to the development of critical thinking and reasoning skills, which are essential for effectively impacting our world for Christ. The order and beauty found in geometric figures are also amazing reflections of our Creator's design.

GEOMETRY COURSE OUTLINE

Quarter 1

- Introduction and Constructions
- Chapter 1: Foundation for Geometry
- Chapter 2: Geometric Reasoning

Quarter 2

- Chapter 3: Parallel and Perpendicular Lines
- Chapter 9: Extending Transformational Geometry
- Chapter 4: Triangle Congruence
- Chapter 5: Properties and Attributes of Triangles

Quarter 3

- Chapter 6: Polygons and Quadrilaterals
- Chapter 7: Proportions and Similarity
- Chapter 8: Right Triangles and Trigonometry

Quarter 4

- Chapter 10: Extending Perimeter, Circumference and Area
- Chapter 11: Spatial Reasoning
- Chapter 12: Circles
- Chapter 13: Probability

GEOMETRY COURSE MATERIALS

Textbook

Houghton Mifflin Harcourt Fuse Geometry iPad Course

Supplementary Materials

- Geogebra Geometry & Classic Apps
- Khan Academy

Required Materials

- Charged iPad with HMH Fuse Geometry iPad Course
- 3-ring binder with graph paper and four divided sections:
 - **Reference** (*Course Outline, Handouts, Postulates and Theorem (“DPT”) Packets*)
 - **Notes & Classwork**
 - **Homework**
 - **Quizzes & Tests**
- “Bullseye” compass/ ruler/protractor (provided by Berean)
- Blue Geometry Template (provided by Berean)
- Sharpened pencil(s) and eraser
- Red pen/pencils for grading. Additional colors are recommended for notes and homework.
- Scientific calculator (TI-30 series or similar) with trigonometric functions. A graphing calculator (TI-84 series) is recommended if taking upper level math classes.

IMPORTANT NOTE:

*****iPAD CALCULATORS MAY NOT BE USED DURING TESTS OR QUIZZES.
Students must bring calculators for use on all tests and quizzes.*****

Optional Resources

- A quality compass with a center adjustment wheel. Staedtler makes several good compasses for less than \$15.
- Holt McDougal Geometry Student Edition textbook (**ISBN-10:** 0547647093) which is identical to the HMH Fuse Geometry Course on the iPad may be purchased.

GEOMETRY COURSE GRADING POLICY

Quarter grades will be determined by the following percentages:

- Homework & Binder : 20%
- Quizzes: 30%
- Tests: 50%

Semester grades will be determined by the following percentages:

1st quarter grade: 40%	3rd quarter grade: 40%
2nd quarter grade: 40%	4th quarter grade: 40%
1st semester final: 20%	2nd semester final: 20%

Homework

It is important that you consistently do your homework. Homework reinforces the material that we cover in class and reveals areas of error or misunderstanding.

- Homework will be assigned almost every day and posted on RenWeb at the beginning of every week. Any changes announced during class time will be updated on RenWeb by the end of the day. *Homework will be collected at random.*
- Homework will be corrected the following day in class. A **red** pen/pencil must be used to make corrections.
- Be sure to abide by the **Homework Rules** as listed in class and at the end of this course outline.
- Homework will be graded as follows:
 - o 100% - All problems are completed and corrected. All work is shown. Neat. Thorough.
 - o 75% - Most of the problems are completed and corrected. Most work shown.
 - o 50% - Some of the problems are completed and corrected. Some work shown.
 - o 25% - Little of the problems are completed and corrected. Little work shown.
 - o 0% - No work completed or work is unreadable. Your parents will be notified.
- Collaborating on homework or getting assistance from other students is encouraged. However, copying homework is considered **cheating** and will be dealt with according to the BCHS handbook.

Late Homework

Unexcused late homework will not be accepted. If homework is turned in late due to an **excused** absence, special accommodations may be made at the teacher's discretion and the dates of the excused absence must be written on the homework assignment.

Binders

Your binder will be checked at random and graded accordingly. It should contain the following:

- All homework assignments in sequential order along with the proper heading to receive credit.
- All of the completed notes that we take, properly labeled, and in order. If you are absent, you are responsible to get the notes from a friend or from the teacher. A photocopy of the notes will not be counted. It needs to be in your own writing.
- All of the quizzes and tests need to be in order. The quizzes and tests are good study guides.

Tests and Quizzes

- One or two quizzes will normally be given from each chapter.
- A chapter test will be given at the end of each chapter.
- If you are absent on a previously announced test or quiz day, you may be required to take the test on your first day back at school. Any test and quiz make up work for any absences listed in the student handbook will follow procedure as listed in the Student Handbook (pages 7-9). If the student has an **excused** absence that causes the student to take the test/quiz after the results are posted, special accommodations can be made with the student and teacher to ensure a fair assessment is given.
- A 0% will be given on a quiz or a test if a student misses it due to an unexcused tardy or absence or is caught cheating or aiding in someone cheating.
- On occasion a project or class activity may be assigned that may be counted as a quiz or test depending on its magnitude.
- Berean's academic honesty policy will be strictly enforced.
- Berean's handbook policy on tests and quizzes will be strictly followed.

EXTRA HELP

It is my goal to encourage and help you to realize your unique God-given academic potential, while you discover glimpses of the Lord's amazing mind and character through mathematics. ***PLEASE ask me if you have questions or need help!***

- I will be available before school, during lunch, and after school for you to get extra help. To make sure that I am available, please let me know in advance to set up a time to meet.
- I may also offer special study sessions if needed.
- The best way to reach me outside of school hours is via email jsugimoto@bereanchristian.com. Be sure to include your name and a detailed explanation of your question.

CLASSROOM RULES AND PROCEDURES

The following rules will be observed at all times:

1. Respect for the teacher and others will be expected at all times.
2. Backpacks will be kept at the back of the classroom at all times.
3. Cell phones will be turned off or silenced and placed in the Cell Phone Pocket Holder upon entrance into the class. Cell phones will never be used or seen with a student. Cell phones will be confiscated for the day if it goes off in class or if a student is caught using it. It will be given to the dean and can be picked up at the end of the day. Demerits will be assigned as well. This rule applies until the bell signals the end of the period.
4. iPads may be used only for classwork. If iPads are used improperly or used not according to the Student Handbook, they will be confiscated.

The following procedures will be observed at all times:

1. Upon entrance into the classroom, you will check yourself in on the Smartboard.
2. You are expected to be prepared with the needed materials at your assigned seat before the bell rings and to begin on the bell work for the day.
3. Using a red pen/pencil, check your homework and make any corrections. Answers will be displayed on the Smartboard.
4. If you have a question, please raise your hands.
5. No talking or getting out of your seat unless permitted by the teacher.
6. When taking exams and quizzes, only a pencil and a calculator (if permitted) may be on your desk.
7. When turning in homework, one student from each row will be assigned to collect the homework from their given row. The homework will then be turned in to the designated area in the back of the room.

Homework Rules

- Show your work.
 - Use pencil
 - Write legibly
 - Show steps in a top-down design
 - Circle your answer(s).
- Make corrections in the red pen/pencil.
- Staple homework together.
- Graded homework should be arranged in your Binder.
- When graphing . . .
 - Use graph paper.
 - Do NOT put multiple problems on the same graph.
 - Use different colored pens/pencils to show changes in graphs.
- Label homework in the upper right corner as follows:

Last name, First Name
Date
Class name and period
HW Set and Problem numbers

PROCEDURES FOR HYBRID/ONLINE LEARNING

MATERIALS REQUIRED

Whether on campus (hybrid) or online, you will need the following each day:

1. Graded homework with corrections made with a red pen
2. iPad which contains your textbook
3. Binder
4. Notebook and/or graph paper
5. Red pen for making corrections
6. Pencil
7. Calculator
8. Another device when taking a quiz or test.

ATTENDANCE

1. Attendance will be taken at the beginning of class orally. If you are not present you will be marked absent. If you arrive late, you will need to deal with the attendance office at a later time.
2. Remember that the teacher dismisses the class and not the bell.

GOOGLE CLASSROOM (GC)

1. In online learning, quizzes, tests, worksheets, homework assignments and answers will be posted in GC. While taking a quiz or test, I expect to observe you using the additional device. The quiz or test is timed and will begin and end at a specified time. Please turn in all assignments in the appropriate folder.
2. In hybrid learning, a test or quiz will be administered when you are on campus. You still need to check your homework the night before since the answers will be posted on GC.

ZOOM

1. The Zoom Class ID can be found on the banner of your GC.
2. Please mute your Zoom session unless you are asking or answering a question.

EXPECTATIONS

1. You are expected to attend every class, to be properly dressed, and to have your camera on you.
2. You will be expected to remain on the Zoom call until dismissed.
3. You will need to have the homework completed and corrected by the beginning of class. Answers to the homework problems will be posted online in GC. At the beginning of class, I will take questions on specific problems. You need to make corrections in red on your homework as we go through the homework. At the end of class, I might have you turn in this assignment to GC.
4. You need to take notes. Either I will supply it for you to fill in or you do it yourself. Remember notes should be placed in your Binder. Lectures will not be recorded. If you miss a lecture, you are on your own just like if you missed school.

5. You need to keep a physical Binder that I will collect at the end of the first and second semester. Make sure your Binder is organized and neat with assignments clearly labeled.
6. Refer to the Remote Learning Commitment document for more information.

OFFICE HOURS

Mondays - Thursday	3:00 PM - 4:00 PM
Fridays	9:00 AM - 12:00 PM

Zoom ID: 88224841470

You will be placed in a waiting room until I can get to you.