

Geometry
09-10 Course Syllabus
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school notes page: <http://schoolnotes.com/63601/bmartin86.html>

Course Description: Geometry uses the same integrated set of instructional materials as Algebra I A (second half of book-dedicated to geometry). The course focuses on the key topics that provide a strong foundation in the essentials of geometry. Topics include segments and angles, parallel lines, perpendicular lines, triangle relationships, similarity, area, surface area, and volume. A review of basic Algebra and a review of how to be successful on the MAP test are also included in this sophomore class.

Instructional Philosophy: This course will be broken up into chapters. Each chapter will include homework assignments, quizzes, and at least one authentic assessment activity. There will be a major test at the end of each chapter and a quarter final at the end of each quarter, which will be over all material covered in the given quarter. It is expected that all students will show their steps in the solution process of every problem, essentially **STUDENTS MUST SHOW WORK!** Students are given an opportunity to work on assignments in class. This is a privilege and if abused can and will be taken away, meaning no time in class for assignments. An emphasis will be made in this class to focus on fundamentals of geometry which will lead our students to success in other math classes and on the ACT exam.

Major Course Goals:

- Solving equations and inequalities
- Graphing linear functions and inequalities
- Learn the basic figures of geometry and spatial thinking
- Find the area and volume of geometrical shapes and prisms
- Using right triangles
- Learning sine, cosine, and tangent functions
- Finding and graphing data
- Finding probability of compound events
- Exploring nonlinear functions and polynomials

Major Course Objectives/Benchmarks by Quarter:

The ability to answer these questions for each quarter means you have mastered the subject matter for that quarter.

1st Quarter: How is solving an inequality different from and similar to solving an equation? How do you graph a linear equation? Why is it useful to be able to graph lines in many different ways?

2nd Quarter: What are the basic geometric figures and how are they used to make other geometric figures? How does translating these figures and applying symmetry, reflection and rotations affect the figures? How do you find the area and volume of any shape or prism?

3rd Quarter: What are the special qualities of right triangles and how can you apply sine, cosine, and tangent to real-life problems? How does probability affect everyday life?

4th Quarter: How do you find the probability of multiple events occurring? What is the difference between experimental and theoretical probabilities? How do you graph and solve non-linear equations? How do you perform mathematical operations on polynomials?

Major Course Projects and Instructional Activities: Instructional activities will include but are not limited to: lecture, homework assignments, authentic assessments, quizzes, chapter tests, quarter finals, reading assignments, and writing assignments. There will be a major project each semester. These projects will show how math can be applied in real-world situations.

Course Assessment Plan:

- A. The students will be tested after each chapter. Test problems will consist of problems similar to problems from the assignments, pre-test, or activities within the chapter.
- B. Pop quizzes and bonus work will be given periodically at the teacher's discretion and will vary in points. Pop quizzes and bonus work cannot be made up if the student is absent

- C. All assignments will be graded on a partial credit system of grading. Meaning you will get credit for notes and writing out explanations of answers.
- D. Grades for this course are determined as follows:

50%	Tests
20%	Quarter Final
30%	Homework, Labs, Quizzes, Writing Assessments

It is very important to do your homework and prepare yourself for the tests, not just one or the other.

- E. Quarter Final Schedule; See Student Planner
- F. Semester Grades will be determined as follows:

50%	1 st (3 rd) Quarter
50%	2 nd (4 th) Quarter

Classroom Expectations:

1. Students will respect their fellow classmates, the teacher, and themselves at all times.
2. Students will listen and use their thinking skills while in this class.
3. No food or drink in this classroom(bottled water is excepted).
4. Ask questions when you don't understand.
5. Always be prepared for class: paper, writing utensil, calculator, textbook, homework, reading book, and planner (random planner checks will be given and points assigned for these checks will contribute to your homework grade).
6. Students must attend class and be on-time, ready to work when the bell rings. This is essential in the real-world as well as in my class. If a student must be absent talk to me ahead of time to know what assignments/ projects, etc you will miss. In cases of emergencies please use the school notes web page to find out what you are missing. This webpage is updated at least weekly and has assignments, etc that we will be doing in class for that week. The website is <http://schoolnotes.com/63601/bmartin86.html>

Supplies and Materials Needed:

- A. Paper and pencils. NO PENS!
- B. Calculator
- C. Notebook or binder for notes.
- D. Planners (Have them all of the time and have them filled in)
- E. Ruler, Protractor, Compass (These will be kept at home as the students will periodically need these instruments to complete home work assignments.

Homework Policy and Grading Scale: Please refer to the Student Handbook for the Homework Policy. The grading scale is as follows:

A.....100-95	A-.....94-90	B+.....89-87	B.....86-83	B-.....82-80	C+.....79-77
C.....76-73	C-.....72-70	D+.....69-67	D.....66-63	D-.....62-60	F.....59-0

Extra Help: I am more than willing to help any and all students be successful in this class, but it is the student's responsibility to ask for help. If a student needs help before school, they can make plans with me to be here early. Students may also take advantage of our extra help program P.A.S.S., which takes place after school. My P.A.S.S. days are Tuesday and Thursday from 2:42- 3:30. **Please know that a student does not have to be assigned to P.A.S.S. in order to take advantage of the program.**

NEW EXTRA HELP THIS YEAR: The books we have chosen for this year come with a variety of programs that can help students outside of the classroom. Throughout the book you will find links to the Prentice Hall Web site. Use the web codes provided with each link to gain access to online material.

- Go to PHSchool.com
- Enter the web code of the lesson you desire
- Click Go!

For every lesson there is an online quiz, which you can access with the web code ada-0701(for ch.7 lesson 1) through ada-1308 (for chapter 13 lesson 8). Also every lesson has additional online help for students to complete homework, including a video tutor for the material. For a video tutor enter ade-0101 for chapter 1 lesson 1, ade-0704 for chapter 7 lesson 4, and so on.

Time and Place to be Reached by Parent: My school email address is bmartin@centralr3.org. This is probably the best way to reach me. Please feel free to email with any questions and/or concerns and I will do my best to reply. I can also be reached at the high school by calling 431-2616, extension 4145, and leaving a message for me, I will return your call as quickly as possible. My planning period is from 1:50- 2:40 and this will probably be the best time for me to return your calls.

Checking Progress of Students: Parents and students are encouraged to monitor the progress and current grade of the student by using the parent link on the centralr3.org website.