

MA 061: Geometry I**Alabama School of Math and Science****Classroom/Office:** S201**Web site:** mathemartiste.com**Office Hours:** Mon, Tues, Wed, Fri 10:00-10:55 (3rd per), Wed 2:45-4:40 (8th & 9th per/"after school")**Math Lab (free tutoring):** Sunday-Thursday 6:30-8:30pm in S201

Khan Academy Coach Code: WP9Z8VW8

Turnitin.com Class ID: 16698444, Enrollment Key: asmsgeometry

Winter 2017-18**Instructor:** Sarah Brewer**Office Phone:** 251.441.2127**Email:** sbrewer@asms.net (best way to contact me)**Syllabus**

Course Description: Geometry I is an introduction to Euclidean Geometry, including the nature of reasoning and proof involved in the study of geometry. Topics covered include congruent and similar figures, parallel lines, and planes, plus an introduction to the study of area, volumes, and transformations involving both investigations and deductive proof. Prerequisite: none.

Text: Harold R. Jacobs, *Geometry: Seeing, Doing, Understanding*, 3rd ed.

Coverage: Chapters 1-11

Required Materials: 3-ring binder with notebook paper, graph paper and dividers; compass, ruler, protractor.

Students will regularly turn in this notebook with reflections on assignments, performance, and learning.

Dividers should be labeled as follows:

1. Handouts – This section should include the syllabus, formula sheets, photocopies of supplementary texts, or any other materials that are distributed in class that do not fall into another category.
2. Lecture Notes – This section should include any notes taken by the student from class lectures, the textbook, and videos, including any handouts with fill-in note slides, clearly labeled with the date and section or topic title, ordered according to date. Note that any lecture notes presented using the Smart Board will be exported in .pdf format and posted to my teaching web site for student convenience.
3. Problem Solving – This section should include problem sets assigned from the textbook and Khan Academy, and any other practice problems worked by the student to support the lecture notes. These should be labeled neatly with your name, date, textbook chapter & section and/or video/topic title as relevant, and problem numbers.
4. Quizzes/Tests/Projects – This section should include any Quizzes, Tests, Projects, Papers, and Reports, clearly labeled and in order by date.
5. Reflection – This section should include study guides with material grouped by chapter/section/topic, written reflections and corrections after each graded assignment is returned, and copies of any Progress Reports received by the student.

Grade determination: Grades will be assigned based on total points earned out of total points possible. Homework assignments and tests will be posted on Netclassroom. Khan Academy assignments will be given regularly. It is the student's responsibility to check these daily to make sure they are not missing anything. Grades will be posted on Netclassroom.

Tests are worth 100 points each, and will consist primarily of material covered since the prior test, but will also include some review questions. The final exam will be comprehensive and is worth 200 points.

Tentative test dates: Week 3, Week 5, Week 8, Week 10

Homework assignments typically range in point value from 5-20 points, and should be labeled neatly with your name, date, textbook chapter & section and/or video title as relevant, and problem numbers. Since many textbook problems assigned will be odd-numbered, students should check their own work for accuracy and ask the instructor or Math Lab proctors to check even-numbered problems. Credit will not be given for answers copied from the back of the book or from another student.

Show all of your own work. Some assignments may be submitted via turnitin.com. Assignments made on Khan Academy should be worked out on paper and kept in the appropriate notebook section. Even when not required, use of this resource is encouraged.

Quizzes and other in-class assignments typically range in point value from 10 to 50 points. Quizzes will be a combination of theory (rules, definitions, and formulas) and problems similar to and directly from homework assignments. Quizzes can occur any day of the week and may be announced or unannounced. If you miss a quiz with an excused absence for which a make-up quiz is not available, you will have fewer total possible points. If a make-up quiz is available, it must be made up within 3 days of a student's return to class. Quizzes missed due to unexcused absences will receive a grade of 0.

Make-up policy: Any homework checks, quizzes, or tests missed due to unexcused absences will receive a grade of zero. Homework assigned during a student's absence must be turned in within three days of the student returning to class. There are no make-up quizzes. Arrangements to make-up tests must be done BEFORE the test is missed. In case of unexpected illness, this can be done via email. Note: make-up assignments will, in general, be more difficult than the original.

Cell phone policy: Phones should be SILENT or OFF (not on vibrate) and away. I reserve the right to confiscate any phone that I deem a distraction. Use of cell phones during quizzes or tests will be considered academic dishonesty and result in a grade of zero. Occasionally, we may use smartphone apps in class, but phones should remain away unless otherwise specified.

Attendance and Tardiness Policy: Three tardies count as one unexcused absence. A student with three unexcused absences may be assigned a grade of WF for the course. Students are responsible for acquiring any missed notes and assignments (as these are posted on the web, this should not be a problem, but check with a classmate to see if you missed anything not posted).

Tutoring: All students are encouraged to attend my weekly Office Hours and the evening student-run Math Lab for help with homework and studying. Even if you do not have a specific question about the material, come by and work on your homework free from distractions and with math experts nearby to help. When you come, make sure you have both your notebook and textbook with you. The primary goal of tutoring is to help you figure out the answers for yourself, not to give you the answer, but if you get stuck, please speak up, even if a Math Lab proctor or myself are helping another student.

Calculators: Students will have in-class access to both scientific and graphing calculators. For any out-of-class assignments requiring calculator use, students are encouraged to utilize wolframalpha.com and desmos.com. Calculators will not be allowed at all on many assignments.

Tentative Schedule

Week 1 – November 6-10

- Ch 1 – Intro to Geometry

Week 2 – November 13-17 (11/17 is a short day)

- Ch 2 – Nature of Deductive Reasoning; TEST 1

Week 3 – November 27 – December 1

- Ch 3 – Lines & Angles

Week 4 – December 4-8 (12/6 is 1st grade posting; 12/8 is Parents' Day)

- Ch 4 – Congruence

Week 5 – December 11-12

- Ch 5 - Inequalities; TEST 2

Week 6 – December 18-20 (12/20 is a short day); January 4

- Ch 6 – Parallel Lines

Week 7 – January 8-12 (01/10 is 2nd grade posting)

- Ch 7 – Quadrilaterals

Week 8 – January 16-19 (No class 01/15)

- Ch 8 – Transformations; TEST 3

Week 9 – January 22-26

- Ch 9 – Area

Week 10 – January 29-February 2; February 5 (01/31 is 3rd grade posting)

- Ch 10 – Similarity; TEST 4

Final Exams – February 6-9