



San Marin High School Math Department

Geometry Syllabus

2019-2020



Course Outline:

The teaching strategies for Geometry focus on how students learn and retain mathematics. These teaching strategies include problem-based lessons structured around a core idea, students interacting in groups to foster mathematical discourse, and practice with concepts and procedures spaced over time, that is, mastery over time. The Common Core State Standards for Mathematical Practice are deeply interwoven into the fabric of the daily lessons. Students will use problem solving strategies, question, investigate, analyze critically, gather and construct evidence, and communicate rigorous arguments to justify their thinking.

Topics of Study:

In this course, students will learn about shapes and transformations, angles and measurement, justification and similarity, trigonometry and probability, completing the triangle toolkit, congruent triangles, proof and quadrilaterals, polygons and circles, solids and constructions, circles and conditional probability, solids and circles, and conics. For this course, we will use a combination of the textbook **Core Connections Geometry** by CPM Educational and **Illustrative Mathematics Geometry** Curriculum (free open source curriculum through Kendall Hunt - <https://im.kendallhunt.com/HS/index.html>) In addition, there are many student and parent resources available at www.cpm.org.

Supplies Needed For Success In This Course:

- Binder with loose leaf and graph paper
- Notebook used specifically to record lessons, practice problems, warm-ups and activities
- School issued Chromebook
- Pencils and erasers
- Textbook/Curriculum: CPM Geometry and Illustrative Mathematics Geometry, students will use the online versions with their school issued chromebook on a daily basis.
- Scientific Calculator – [TI-30 xii](#), [Casio fx-115ES](#) or [Sharp EL-W535TGBBL](#) suggested

Grading Categories

Class work and home practice (formative)	20%
Quizzes and Projects (formative)	25%
Individual Tests (summative)	40%
Final (summative)	15%

Grades Assigned (0-4 rubric scale)

A	3.00-4.00
B	2.50 - 2.99
C	2.00 - 2.49 *intervention is suggested
D	1.00 - 1.99 *intervention is required (tutorial)
F	Below 1.0 *intensive intervention is required (tutorial and learning lounge)

Home practice

At home practice problems will be given every night and reviewed in the following class. Within this CPM course, the homework is carefully designed to offer practice with the past material, as well as, laying a foundation for future learning. It is very important that the student is practicing at home the skills he/she learned in class, so plan on spending time every night on homework. Homework is graded based on a

variety of aspects, including completeness of assignment, neatness, showing of work, depth of mathematical explanation, self-correcting and accuracy.

☐ Class work

In this course, students will complete problems and activities individually and within a study team. Students will explain their ideas, listen to what others have to say, and ask questions if there is something he/she does not understand. In this course, a single problem can often be solved several different ways. Students will see problems in different ways than their teammates do. Each student has something unique to contribute to the study team and together they will work on completing the lessons.

☐ Assessments

In this course, assessments include individual performance tasks, team performance tasks, individual quizzes, and individual tests. Team tasks allow teamwork, collaboration, and mathematical success to be assessed. Individual tests allow for assessment of the student's ability to solve mathematical problems, the level of skill mastery, and the conceptual understanding of topics or ideas. Student presentations allow students to exchange insights, use the language of mathematics, and deepen their understanding, and at the same time, they allow teachers to assess mathematical communication, justification, and making connections.

Grading Policy:

Grades will be posted in Aeries, which can be accessed through the San Marin Home Page, <http://sanmarin.nusd.org>. Per Board Policy: Grades shall be reported at the end of each progress reporting period for all students. Progress reports will be accessible to parents online approximately every five/six weeks. Whenever a student falls below a C- after the second Progress Report for either semester, the teacher shall arrange a conference with the student's parent/guardian and/or send a written report. (Board Policy 5121)

Absent Policy and Late Work:

All work assigned is due the next class day. For an excused absence, the student will be given one class day for each absent class day, up to one week. There is no make-up allowed for unexcused absences. For all approved absences, the student must get the assignments before the absence, and those assignments must be turned in by the regular due date or first day of attendance

For an excused absence, a make-up test will be typically given the day of the student's return. An unexcused absence results in a grade of an F for any test missed. If a student is absent the class day before the test, he/she will still be expected to take the test. If a student is caught cheating on an individual test, there will be no points awarded and no make-up test allowed. A referral will be sent to the administration.