SAN MARIN HIGH SCHOOL COURSE POLICIES & PROCEDURES
FALL 2020-SPRING 2021

Course: Geometry	**Room:** 502
Instructor: Ms. Merkin	**Phone:** (415) 898-2121
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Course Description (*Prerequisite: "C or better in Algebra 1"*)

Welcome to geometry! This course is designed to teach students basic properties of polygons and circles, including area and perimeter/circumference. Students will also learn about how to find the surface area and volume of geometric solids. Through explorations and project based group activities students will learn how to use logic and reasoning to write deductive proofs.

Course Outline

Semester Overview by Unit
Unit 1: Rigid Transformations & Angle Relationships
Unit 2: Similarity
Unit 3: Congruence
Unit 4: Right Triangles & Trigonometry
Unit 5: Polygons
Unit 6: Circles
Unit 7: Solids

*We will spend approximately two full weeks on each unit.

Bring to Class Daily:

- A 1 or 1.5 Inch 3-Ring Binder
- Loose Leaf Graph Paper
- Pencils & Erasers
- Scientific Calculator
- Chromebook (Charged!) & Charger
- Colored Correcting Pen

Textbook:

- <u>Illustrative Mathematics Geometry</u> by Kendall Hunt Publishing

Grading Policy:

Grades will be posted in Aeries and will be accessible to both parents and students through the San Marin website (<u>sanmarin.nusd.org</u>) under the "Students" tab. Grades will be updated every two weeks.

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 to 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.

Attendance:

It is necessary to come to class on time and prepared in order to be successful. However, we are all human and tardies and absences happen.

In the case of a tardy:
- Students are considered tardy if they are not in the room and seated by the second bell or if they are not logged into the Zoom call at the start of class.
- Excessive tardies will result in a referral to administration and a parent meeting.

In the case of an excused absence:
- Any homework or classwork must be turned in by the *following two class periods*. *For example, if a student is absent on Wednesday, they have until Friday to turn in any work that was missed on Wednesday.*
- If an exam or quiz was missed, the exam or quiz must be made up **the next day the student returns to class** or **during the next tutorial**.
- All handouts that may have been missed are located in Google classroom and any missed notes are uploaded to my website: **msmerkinmath.com**.
- If a student is absent for an extended period of time (longer than a week) please make an appointment with me to discuss make-up options.

Classwork, Independent Learning Assignments & Homework:

Classwork will be assigned at every class meeting. Classwork includes team activities and problem sets from the textbook. Students are expected to attend every class meeting unless the absence is excused. Students that are absent must make up any classwork assigned during the class period as well as check in with their teacher to see what they missed during class.

Independent learning assignments include video tutorials and guided notes. Students are to complete these assignments during the designated tutorial/independent work time that is set aside in the schedule. Independent learning assignments are NOT the same as homework, homework will still be assigned to be completed once the tutorial/independent work time is over.

After each lesson, students will be assigned 5-10 practice problems. These problems will be gone over at the beginning of each class period. At the end of each week, there will be a homework quiz based off of the problems assigned for homework. The homework quiz will be graded based on the four point proficiency scale and can be retaken during tutorial.

Quizzes and Exams:

Each unit, there will be a pre-assessment, short quizzes, and a summative assessment.

All exams will be comprised of a mixture of multiple choice and free response questions in which students are expected to demonstrate their understanding and explain their reasoning. Each unit exam will be cumulative. At the end of each semester, students will take a comprehensive exam that assesses all learning targets.

In the case a student is absent on the day of the exam, they will be taking the exam the next class day they are back. Students are responsible for any work or notes they miss on the day of the retake.

Advice for Success:

1. Don't be afraid to make mistakes. Mistakes are a part of the learning process and everyone makes them!
2. Come prepared for class. It is essential that you have what you need and come to class on time in order to be successful.
3. Ask questions! If you are not understanding something do not hesitate to ask questions or get some extra help.
4. Contribute to your team. The best way to learn math is in a collaborative environment. There will be a point in time that you will need to lean on your team for help and they may need to lean on you!

San Marin High School Math Department
Geometry Syllabus
2020-2021

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, completing the triangle toolkit, congruent triangles, proof and quadrilaterals, polygons, solids and circles. For this course, we will use the **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 https://curriculum.illustrativemathematics.org/HS/teachers/family_info.html.

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: Illustrative Mathematics Geometry, students will use the online version 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%
Assessments: Proficiency Score for Learning Target (Summative)	80%

Grades Assigned (0-4 rubric scale)

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

- Home Practice

At home practice problems will be given after each lesson and reviewed the following class. Within this 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

Class work will be done virtually in Zoom classes until in person instruction has resumed. 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.

- Independent Work

During the independent work time built within the virtual learning schedule, students will be assigned video lessons and guided notes to complete. Students are expected to watch all videos and take notes on the date the video lessons are assigned. Keeping up with video lessons and notes will be critical to the success in this course. Any questions that come about from watching video lessons will be addressed at the beginning of the next class meeting.

- 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.