

Geometry 2023 - 2024

Instructor Information:

| Teacher | Room # | Email |
|-------------------|--------|--|
| Ault | 122 | aault@WashoeSchools.net |
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| Campbell | 121 | ian.campbell@washoeschools.net |

Course Description:

This is a one-year course that will cover the following topics: axioms, postulates and theorems; plane geometric figures; right triangles; constructions; congruence and similarity; proportions; perimeter, area and volume; circles; coordinate and transformational geometry; three-dimensional geometry; inductive reasoning; and probability applied to geometry. Development of deductive reasoning skills will be emphasized. Students will also review algebraic techniques and work on realistic problems.

Course Pre/Co-requisites:

Basic understanding of solving algebraic, linear equations. It is recommended that students have passed at least one semester of Algebra 1.

Required texts, course materials:

Materials to be brought every day to class

- Binder
- Lined paper and graph paper
- Vocab Journal
- Scientific calculator (A TI-30x II is recommended, for which the cost is usually around \$15.00.)
- Pencils and pens

*Note: Remember to pay your lab fees☺ Pay \$3 to the bookkeeper and show your math teacher your receipt.

Student Learning Outcomes:

Selected standards to be learned:

- SLO1. Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.
- SLO2. Develop definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments .
- SLO3. Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.
- SLO4. Explain how the criteria for triangle congruence (ASA, SAS, and SSS) follow from the definition of congruence in terms of rigid motions.
- SLO5. Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.

- SLO6. Identify and describe relationships among inscribed angles, radii, and chords. Include the relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects the circle .

Course Requirements:

| Type | % | Policy |
|------------------------|-----|---|
| Assignments | 10% | Homework assignments will be graded on accuracy. Each problem is worth one point if done correctly. Students who miss questions can earn back half credit on those problems by doing corrections. Late Homework will be accepted for half of the earned value (yes, it will be graded by accuracy!), and it must be turned in by the day of the test for that chapter. If a student is absent, the district make-up policy will be followed. |
| Mathematical Practices | 10% | Mathematical Practices points are earned through participating in the learning process throughout the course of each unit. These points can be earned through various forms; vocabulary journal, explaining problems to the class, responding to items in class meetings, or participating in class activities. |
| Assessments | 65% | Quizzes may be given daily and cover the material from the previous classes and the previous homework assessment. Tests will always be announced in advance and will be worth approximately 100 points each. There will be a chapter test every two to three weeks, along with a cumulative exam given prior to the final exam. The final exam will replace the student’s lowest test score if such a score exists. |
| Final Exam | 15% | A final exam will be given at the end of each semester. |

Grading Criteria, Scale, and Standards:

DRHS/WCSD grading scale:

- A: 90% - 100%
- B: 80% - 89.9%
- C: 70% - 79.9%
- D: 60% - 69.9%
- F: <59.9%

Make-Up Work

- Make-up work is defined as scheduled tests, scheduled quizzes, homework assigned on the day the student was absent, and/or a description of the topic(s) covered in class while the student was absent and possible resources where the student can obtain information on the topic(s).
- It is the responsibility of the student to request make-up work after returning from an absence and return the completed work within the designated deadline.
- Students are provided the length of the absence plus one day to complete any make-up work assigned. For example, if the student was absent for four days he/she will have five days to complete and submit the make-up work.
- Students who do not request or return completed make-up will not earn credit on missed assignments.
- Make-up work need not be identical or equivalent to that missed due to the absence but will ensure that the student has the opportunity to meet the academic standards.

- Previously assigned work that was due on the day the student was absent is NOT considered makeup work and is due the day the student returns to school.
- The teacher must provide make-up work to the student within 2 days of the student's request.

Topics Outline:

| | |
|---------|---------------------------------------|
| Unit 1 | Angles |
| Unit 2 | Segments |
| Unit 3 | Transformations and Parallel Lines |
| Unit 4 | Triangles |
| Unit 5 | More about Triangles |
| | Semester Review and Final Exam |
| | |
| Unit 6 | Similarity |
| Unit 7 | Right Triangles |
| Unit 8 | Area |
| Unit 9 | Quadrilaterals |
| Unit 10 | Circles |
| Unit 11 | Surface Area and Volume |
| | Semester Review and Final Exam |

Damonte Ranch High School/WCSD Policies

Academic Integrity:

Cheating means gaining unfair advantage by using unauthorized information.

Cheating is further defined by but not limited to:

- **COPYING** someone else's homework, classwork, or test answers
- **ALLOWING** someone else to copy your work or test answers
- **USING** any kind of unauthorized device, study aid, or cheat sheet
- **POSSESSING** or **VIEWING** a copy of an exam beforehand
- **SHARING** test information with students who have not yet taken the test or course
 - o This includes taking answers/questions from a test out of the classroom without the permission of the teacher.
- **CHANGING** your answers or someone else's when correcting in class
- **MISREPRESENTING** work done by others as your own work.

Plagiarism is presenting the words or ideas of another person as one's own without citing sources.

- **YOU ARE PLAGIARIZING** when you copy a phrase, a paragraph, a page or an entire paper.
- **YOU ARE PLAGIARIZING** when you copy from a published source, i.e. Internet or print.
- **YOU ARE PLAGIARIZING** when you copy from someone else's work.

Minimum consequences for cheating are as follows:

- **REFERRAL** to Student Services
- **PARENT CONTACT** by the teacher
- **LUNCH DETENTION** with Student Services
- **NOTATION** made in school discipline record

Additional consequences may include, but are not limited to, the following:

- Student will receive a **ZERO** on the test or homework assignment
- Student will receive an **"F"** in citizenship for the quarter and depending on the severity of the infraction may receive an **"F"** in citizenship for the semester
- Alternative assignment, to be determined by the teacher

Be Responsible. Make Wise Choices. If you are unsure, ask your teacher for guidance.

Geometry Syllabus Signature Page

Remove this page from the rest of the syllabus, sign below and return to your teacher next class. Keep the rest of the syllabus for your reference. By signing below, you acknowledge that you have read the syllabus and the Academic Integrity Policy for this course.

“I have read the Damonte Ranch High School Academic Integrity Policy.”
“I have read the syllabus for Geometry at Damonte Ranch High School.”

Student Last Name (printed)

Student First Name (printed)

Student signature

Date

Parent/Guardian signature

Date