Instructor Information:

Instructor	Phone	Email
Mr. Gannon Rm 220	775-851-5656	PGannon@washoeschools.net
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Course Description:

This is a one-year Honors course that will cover the following topics: axioms, postulates and theorems; plane geometric figures; right triangles; right triangle and oblique triangle trigonometry; 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-requisites:

Above average understanding of solving algebraic, linear, and quadratic equations. It is recommended that students have excelled in both semesters of Algebra 1.

Required texts, course materials:

Materials to be brought every day to class:

- Binder
- Lined paper and graph paper
- Scientific calculator (A TI-30x IIS is recommended, which usually costs around $15.00.)
- Pencils and pens
- Textbook (Covered)
- $3 Lab Fee paid to bookkeeper. Please show your receipt to your math teacher.

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. *Assignments must have every problem attempted with work shown in order to be considered on time. This includes the proof setup with a minimum of two steps attempted.* Students who miss questions may do corrections to earn back credit in class. **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. **2% Bonus:** Students who complete every assignment for the entire semester will earn a 2% bonus for their semester grade. If a student is absent, the district make-up policy will be followed.
Participation	5%	**Participation** points are earned through participating in the learning process throughout the course of each unit. These points can be earned through various forms; explaining problems to the class, doing problems on the board, or participating in class activities.
Quizzes	10%	**Quizzes** may or may not be announced. Be prepared for quizzes at all times.
Tests	60%	**Tests** will always be announced in advance and will be worth approximately 100 points each. There will be approximately 6 test per semester. The final can replace the lowest test grade. 1 retake is permitted per semester for full replacement any other retakes will be an average of the two scores.
Final Exam	15%	A **final exam** will be given at the end of each semester.

Grading Scale and Make-Up Work:

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.

Tentative Course Calendar or Topics Outline:

Semester 1		
Algebra Rev	Algebra Topics Review	
Chapter 1	Tools of Geometry	Test Worth 100 Points
Chapter 2	Logical Arguments and Line Relationships	Test Worth 100 Points
Chapter 3	Rigid Transformations	Big Quiz for 50 Points
Ch 2 Part 2	Parallel lines and Transversals	Test Worth 100 Points
Chapter 4	Congruent Triangles and Properties of Triangles	Test Worth 100 Points
Chapter 5	Relationships in Triangles (Medians, Altitudes, etc.)	Test Worth 100 Points

Semester 2		
Chapter 7	Similarity	Test Worth 100 Points
Chapter 8	Right and Oblique Triangles	Test Worth 100 Points
Chapter 6	Quadrilaterals	Test Worth 100 Points
Chapter 9	Circles	Test Worth 100 Points
Chapter 11	Solids	Test Worth 100 Points Optional Bonus Project
Chapter 13	Probability	Daily Quizzes

Communication:

- **Canvas:** This is our primary mode of communication. www.washoe.instructure.com
- **Website:** The DRHS website has includes a page for each course. In order to access the Formal Geometry page, please go to www.washoeschools.net/DRHSmath. Copies of notes for many sections and selected solutions for assignment are posted on this website.
- **YouTube:** If you are absent for a lesson you can access video lessons for each unit at https://www.youtube.com/channel/UCzc_ksolwkAa90bpj1VsHsw

Damonte Ranch High School Academic Integrity Policy:

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
  - 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.

Please Complete the form on Canvas to verify that you have read and understand the syllabus and academic integrity policy.