

Algebra 2

Instructor Information:

Teacher	Room number	Email	Availability
Gannon	220	pgannon@washoeschools.net	IC by appointment
Havel	E272	shavel@washoeschools.net	IC by appointment
Wisecarver	119	hwisecarver@washoeschools.net	IC by appointment

Course Description:

This is a one-year course, which strengthens and expands the techniques and concepts learned in first-year algebra. This course will strengthen the student's problem solving and algebraic skills in preparation for advanced mathematics courses and will introduce some trigonometric topics. The major topics of study are: function and relation families (quadratic, polynomial, exponential, logarithmic, exponential, radical, and rational); systems of equations and inequalities; irrational and complex numbers; sequences and series; trigonometric foundational concepts, and elements of probability and statistics. Throughout the year, students will be expected to continue to develop the ability to reason and communicate mathematically, apply learned concepts to new problem-solving situations, and exhibit increased confidence in their ability to solve mathematical problems.

Required texts, course materials:

Textbook: Envision Algebra 2 (This is not required, but a copy will be available for you if you would like one)
Information/directions for accessing digital resources for our textbook can be found on our website.

Website: www.Washoeschools.net/DRHSmath

\$3 Lab Fee paid to bookkeeper. Please show your receipt to your math teacher.

Class expectations/procedures/structures:

- Be on time, seated, and read to work when the bell rings to start class.
- Bring all materials to class daily.
- Respect others and their property.
- Stay on task and participate fully.
- Students who complete all assignments for the semester will receive a 2% bonus for their semester grade after finals are taken and graded.
- All assignments should be completed in pencil; all corrections should be done in pen.
- Students are required to show work on all problems on their assessments, tests, quizzes, and all corrections must also have work shown.
- Students who complete all assignments for a unit and attempt every problem on the test are eligible to take one test redo per unit, as needed. Corrections of errors on the original test must be turned in before the retake.
- Late assignments will be worth 50% of the earned score and must be turned in before the test in order to be graded.
- Phones are not to be out or used during class time unless the teacher has given specific permission.
- Absent students should visit the class website (www.washoeschools.net/DRHSmath) in order to write down the class notes before returning to class.
- Students who lose a worksheet/handout/notes packet should visit the class website in order to print off a new copy.

Student Learning Outcomes:*Standards to be learned:*

- Use properties of rational and irrational numbers.
- Reason quantitatively and use units to solve problems.
- Create equations that describe numbers or relationships.
- Understand solving equations as a process of reasoning and explain the reasoning.
- Solve equations and inequalities in one variable.
- Interpret expression for functions in terms of the situation they model.
- Analyze functions using different representations.
- Interpret linear, quadratic, rational, and exponential models.
- Understand the concept of a function and use function notation.
- Interpret functions that arise in applications in terms of the context.
- Interpret expressions for functions in terms of the situation they model.
- Build new functions form existing functions.
- Summarize, represent and interpret data on two categorical and quantitative variables.
- Solve systems of equations using matrices as well as other methods.
- Represent and solve equations and inequalities graphically.
- Build new functions form existing functions.
- Build a function that models a relationship between two quantities.
- Construct and compare linear, quadratic, and exponential models and solve problems.
- Interpret the structure of expressions.
- Write expression in equivalent forms to solve problems.
- Extend the properties of exponents to rational exponents.
- Perform arithmetic operations on polynomials.
- Represent and solve equations graphically.
- Summarize, represent, and interpret data on a single count or measurement variable.

Course Requirements:

Type	%	Policy
Assignments	15%	Homework assignments will be graded on work shown, completeness, and evidence of corrections. 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 <u>must be turned in</u> by the day of the test for that unit. Various other assignments will be done in class throughout the year.
Daily Quizzes	10%	Quizzes will be given periodically and will vary from 10 to 20 points.
Tests	55%	Tests will always be announced in advance and will be worth approximately 100 points each. There will be a test approximately every 2 or 3 weeks.
Participation	5%	Participation will be graded based on the classroom expectations. Students are expected to be taking notes on the material, interacting with their group, and contributing to the class discussions.
Final Exam	15%	A final exam will be given at the end of the semester. Students will receive a course review prior to the exam.

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 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.

Late Work

- Late work is due by the unit test at the end of each unit and will be half credit.

Communication:

- **Teams:** This is our primary mode of communication.
- **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.

Course Calendar or Topics Outline:

Semester 1

August through
October (1st
Quarter):

Linear Functions and Systems
Radical Functions
Graphing Quadratic Functions

October through
December (2nd
Quarter):

Solving Quadratic Functions
Polynomial Functions
Matrices
Semester Review and Final
Exam

Semester 2

January through
March (3rd
Quarter):

Rational Functions
Rational Exponents and Radical
Functions
Matrices*

March through
June (4th Quarter):

Exponential Functions
Logarithmic Functions
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
 - 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.

"I have read the Damonte Ranch High School Academic Integrity Policy."

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