

Algebra 2 2009-10

Teacher: Mrs. Willis-Stork

Room: 819

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Course Scope:

This one-year course in algebra continues and expands upon the concepts and procedures learned in Algebra I. It has the primary goal to develop competence in using variables and functions to model numerical patterns and quantitative relations. Emphasis is on the study of polynomial, rational, exponential, and logarithmic functions, systems of equations and inequalities, matrix arithmetic, and sequences and series. Connections to other areas of mathematics and applications to other disciplines are integrated into the course. The use of technology, including graphing calculators and computer software, is an integral part of this course. This course will fulfill one of the mathematics credits required for high school graduation.

Course Goals:

1. To understand and use the vocabulary and notation of mathematics.
2. To develop the ability to reason and communicate mathematically in order to apply learned concepts to new problem-solving situations.
3. To solve real-world problems using algebraic techniques involving equations and inequalities.
4. To solve algebraic problems using linear and absolute value functions.
4. To solve linear systems in two or three variables by graphing and by using algebraic methods.
5. To formulate, organize numerical data, and solve real-life problems using matrices.
6. To develop different methods for solving quadratic equations and inequalities using the real and complex number system.
7. To perform operations on, solve, and graph polynomial functions.
8. To perform operations on and solve equations involving rational exponents and radical functions.
9. To solve and graph exponential and logarithmic functions.
10. To perform operations on, solve, and graph rational functions and expressions.
11. To identify, graph and write equations of conic sections.
12. To investigate finite and infinite sequences and series.
13. To create mathematical models from data for analysis and prediction.

Text: Algebra 2 - Integration, Applications, Connections. Glencoe, 2001.

Daily Required Materials:

- Textbook
- Three-ring binder with tabbed dividers (not a spiral notebook)
- Loose leaf paper
- Pencil
- Red correcting pen
- Scientific calculator (SIN, COS, TAN)--graphing calculator also recommended, but will not be allowed on tests
- Coronado planner
- Previous assignments

Hours of Availability:

If you need extra help or need to do make-up work, you are welcome to stop by anytime before or after school. Sometimes I have meetings or other responsibilities, and so you may want to check with me in advance to schedule a time. A calendar is posted on the wall where you can check my availability, as well as sign up for a time.

Grading Procedure:

You will be graded on the following:

- Tests
- Assignments
- Quizzes
- Vocabulary
- Notebook content
- Textbook and Coronado Planner checks
- Participation in class activities

TESTS:

Tests will be given at the end of each chapter, and mid-chapter tests may be given as well. You must **show all work** on a test to receive full credit. Tests must be taken in pencil, or the equivalent value of one question will be deducted from your score.

ASSIGNMENTS:

Assignments will be given and checked daily. All assignments will be due at the beginning of the next class period, unless otherwise specified. Begin each assignment on a separate sheet of paper, with the following information at the top of the page:

	Name
	Period
Section & Problems	Date Assigned

Assignments must be complete, accurate, and neat. You must copy relevant information and appropriate diagrams before answering each question. Show all work and mark answers clearly by “boxing” or highlighting. Unless otherwise stated, assignments will be *graded* on completion, not correctness. It is up to you to correct and learn from your mistakes in preparation for the test.

Late assignments will not be accepted, unless you were absent (subject to teacher’s discretion).

QUIZZES:

Quizzes may be announced or unannounced.

VOCABULARY:

Vocabulary assignments or tests will be given regularly. Chosen words are discussed in class notes, highlighted in section readings, and defined in the text glossary.

NOTEBOOKS:

Notebooks will be assessed at least once per quarter. It is suggested that you divide your three-ring binder into at least three sections: notes, current assignments, and returned work. You are expected to have notes from each lesson, even if you are absent (make-up notes can be obtained from me outside of class or from a classmate). *Lesson headings should include the section number and date, and lessons should be kept in chronological order.* This course expectation sheet should appear at the beginning of your notebook. Format of assessment will be provided at a later date.

YOUR GRADE:

Quarter grade:	60%	Tests and quizzes
	30%	Assignments
	10%	Vocabulary, notebook, planner check, textbook check, and participation

Semester grade:	45%	First Quarter
	45%	Second Quarter
	10%	Semester Exam

Final grade:	90 - 100%	A	(decimals will be rounded to nearest whole number)
	80 - 89%	B	
	70 - 79%	C	
	60 - 69%	D	
	0 - 59%	F	

Current grades are posted online regularly. It is your responsibility to check your grade, look for missing assignments, and check for errors. If you do not notify me, I will assume that you agree with the posted grade.

CITIZENSHIP:

Factors when determining Citizenship grades are punctuality, attitude, participation, behavior, and academic integrity.

Planners:

Coronado planners (available in the banker's office) are required for class and used as a hall pass. You will be allowed **two emergency hall passes per quarter**. To use a hall pass, you must have *your* planner AND teacher-issued card. Hall passes can be turned in at the end of the quarter for extra credit, but cannot be replaced if lost.

Absences:

It is your responsibility to get notes and make-up work for days you were absent. Check my website calendar to see what you missed. Take care when reading the calendar, as assignments for other classes are also listed. Assignments given when you were absent must be turned in within 3 days of your return (subject to teacher's discretion). Failure to do so will result in a zero for the assignment. Absent work is to be turned in directly to me before school, after school, or during independent work time in class. You need to include the following information on all absent work, in addition to the information specified previously:

Date of absence**General reason you were absent (sick, school activity, in the office, etc.)**

If you miss a test in your absence, you must make arrangements with me to make it up outside of class. Again, you have 3 days to make it up. Failure to do so will result in a 25% reduction in points, for each day beyond the 3-day deadline. Students who are absent *only* on a test day or review days will be required to take it immediately upon return.

Approved absences may be changed to "unapproved" if make-up work is not completed.

If you exceed 10 unapproved absences in a semester, you will receive a failing grade.

Tardy Policy:

All students will adhere to the school-wide tardy policy. If you are late to class without an approved pass, you must have a signed tardy lock-out slip in order to be admitted. A tardy lock-out slip can be obtained from a designated table or the attendance office. You must be inside the room *before* the bell begins to ring, or you will be considered tardy. Students who come to class more than 30 minutes late will be counted absent.

Academic Dishonesty:

The consequences for academic dishonesty (defined in the Coronado High School Honor Code) are as follows:

First offense: zero on the assignment, test, quiz, etc.

Second offense: zero on the assignment and a zero for 10% of the quarter grade

Consequences:

- Verbal warning
- Phone call to parent or guardian
- Teacher detention
- Referral to Dean

Classroom Rules:

- Be on time to class!
- Sit in your assigned seat or you will be marked absent
- Bring your materials to class
- Be respectful of your teacher(s) and peers
- Raise your hand to speak or get out of your seat
- No use of obscene or improper language
- Water is the only beverage allowed—no food
- Hats, cell phones, ipods, etc. will be confiscated
- Use class time wisely
- Throw away trash before leaving
- Wait in your seat at the end of class to be dismissed

Please return to the website to print the required "Signed Syllabus Sheet"