

Algebra 2 2007-08

Teacher: Ms. Willis

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
- Loose leaf paper
- Pencil
- Red correcting pen
- Scientific calculator (with SIN, COS, TAN)--graphing calculator strongly recommended
- Coronado planner
- Previously assigned homework

Hours of Availability:

If you need extra help or need to do make-up work, you may make arrangements with me. I will usually be in my room before and after school. I am more than willing to help, but please plan in advance! Free peer tutoring is available twice a week through Mu Alpha Theta (Math Honor Society). Days, times, and locations will be posted in class.

Grading Procedure:

You will be graded on the following:

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

TESTS:

Tests will be given at the end of each chapter, and mid-chapter tests may be given as well. Point totals for chapter tests will range from 60-80 points. 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.

HOMEWORK:

Homework will be assigned and checked daily. Begin each assignment on a separate sheet of paper, with the following information at the top of the page:

	Name
Section & Problems	Period
	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 circling or highlighting. Unless otherwise stated, homework 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 homework will not be accepted, unless you were absent (subject to teacher's discretion).

QUIZZES:

Quizzes may be announced or unannounced. Point totals may range from 10-20 points.

VOCABULARY:

Vocabulary will be tested weekly. Words are posted on the board at the beginning of each week; tests will take place at the end of the week, unless otherwise specified. 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 three sections: notes, homework, and vocabulary. You are expected to have notes from each lesson, even if you are absent. *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% Homework
	5% Vocabulary and participation
	5% Notebooks, planner check, textbook check

Semester grade:

40% First Quarter
40% Second Quarter
20% 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 twice each week. 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.

Absences:

It is your responsibility to get notes and make-up work for days you were absent. Check the assignment calendar (posted on the wall) before or after class to see what you missed. Assignments given when you were absent must be turned in within 3 days of your return (subject to teacher's discretion). You need to include the following information on all absent work, in addition to the information specified above:

Date turned in

Date of absence

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

If you miss a test or quiz in your absence, you must make arrangements with me to make it up outside of class. Students who are absent only on the day of a test will be required to make it up 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 tardy for any reason, **you must sign the tardy sheet** when you enter the classroom. You must be seated before the bell rings, or you will be counted tardy. Students who fail to sign in, or come to class more than 30 minutes late, will be counted absent. The tardy policy is as follows:

First tardy:	warning
Second tardy:	student signature required
Third tardy:	copy of referral mailed home
Fourth tardy:	parent contacted by phone or email
Fifth tardy:	RPC
Subsequent tardies:	referral to dean

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
- Teacher detention / Huxleys
- Phone call to parent or guardian
- Referral to Dean

Classroom Rules:

- Be in your assigned seat when the bell rings—if you're not in your **assigned seat**, you will be considered absent
- Bring your materials to class
- Be respectful of your teacher(s) and peers
- Raise your hand to speak
- No use of obscene or improper language
- Water is the only beverage allowed—no food!
- Hats, cell phones, mp3/CD players, and PDAs will be confiscated
- Use class time wisely
- Throw away trash before leaving
- After the bell rings, wait in your seat to be dismissed