

Coronado High School
Mathematics Applications
Ms. Leonard
2009-2010

Course Scope:

This one-year course is designed for eleventh and twelfth grade students needing further assistance in preparing for the Nevada High School Proficiency Examination in Mathematics. This course builds on the concepts of algebra, geometry, and data analysis while solidifying and extending mathematical concepts, problem solving, and procedures. Areas of study will include numbers, number sense, and computation; patterns, functions, and algebra; measurement; spatial relationships and geometry; and data analysis. The use of appropriate technology and hands-on activities are essential to the learning environment. This course fulfills one of the mathematics credits required for graduation.

Course Goals:

1. To develop and extend problem-solving skills in order to communicate and reason mathematically.
2. To apply problem-solving strategies connecting new situations to previously-learned concepts.
3. To define, formulate, and solve problems applying the strategies and processes of mathematical modeling to consumer and career-related problems.
4. To define and extend strategies for estimation and computation.
5. To demonstrate problem-solving strategies including the use of sets, matrices, diagrams, coordinate systems, and other models using technology where appropriate.
6. To solve and graph equations, inequalities, and systems using a variety of methods, including technology.
7. To evaluate algebraic expressions and formulas using order of operations on real numbers and to apply the laws of exponents.
8. To solve real-world problems using ratio, proportion, percent, scale drawings, probability, statistics, geometric models, and algebraic models.
9. To solve problems using direct and indirect measurement techniques within the metric and customary systems as well as monetary systems.
10. To use algebraic techniques to solve problems determined by geometric relationships including the use of the Pythagorean Theorem and relationships among two- and three- dimensional figures.
11. To interpret and solve a variety of mathematical problems using data analysis and probability methods and strategies.
12. To increase mathematical confidence by promoting participation in group activities and projects, enabling students to make reasonable career decisions.
13. To reinforce and maintain the skills mandated by the Nevada High School Proficiency Examination in Mathematics.

Materials

Students are required to bring the following to class daily:

- ✓ 3-ring binder with loose-leaf paper.
- ✓ Pencil with eraser

No calculators will be used in this course

Student Conduct

Students are expected to follow all rules posted in the Coronado High School Handbook. I also maintain 4 very basic and general rules that I expect to be followed at all times:

1. Be on time. Refer to the School Wide Tardy Policy for more information. If you are tardy to my class you must pick up a "tardy card."
2. Be prepared. All students must have a textbook, a notebook, a pencil, an eraser and any assignments that are due. I will not accept work completed in pen.
3. Be respectful. Students are expected to show respect for self and others. This includes the property of others.
4. Be on task. This includes following class procedures. Nuisance items (cell phones, ipods, food/drink) will be confiscated. Don't do it!

If a student is issued a detention, he/she will be required to attend on either Monday mornings from 6:30 – 7:00 **or** Thursday afternoons from 1:20 – 1:50

Evaluation

Grades will be weighted according to the type of assignment. These weights are a percentage of the overall grade, and the scale is as follows:

Tests 50%
Quizzes 25%
Assignments 25%

The grading scale is as follows:

A 90%-100%
B 80%-89%
C 70%-79%
D 60%-69%
F 59% and below

Semester Grade will be determined by the following scale:

1st Quarter 45%
2nd Quarter 45%
Semester Final 10%

Coronado High School Policy on Makeup Work Due to Absence

After any absence, the student shall be required to initiate contact with his/her school instructor(s) to obtain appropriate makeup work within three (3) days directly following the absence. Once contact has been made with the instructor(s), specific makeup work and the time interval allowed for homework completion will be determined by the instructor(s).

Ms. Leonard's Makeup Work Policy

- Students are responsible for make-up work. Assignments are posted on the class calendar daily. Missing assignments are due within 3 days of returning to school.
- Please pick up an **Absent Card** when entering the class. Fill out the absent card completely. You will then turn the white copy in. Once you have completed the assignment you will attach the yellow copy before you turn it in.
- Quizzes and Tests may not be made up in class. If a student needs to make up a quiz or test, they must come after school.

Teacher Availability

I will be on campus most days until 3 pm. Students may come by any time to ask for help, check on their grade or make up a test or quiz

Please contact me with any questions. **ACLeonard@interact.ccsd.net**

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Please return this page signed by student and parent/guardian stating that you have read and understand the class expectations.

Print name of Parent/Guardian

Print name of Student

Signature of Parent/Guardian

Date

Signature of Student

Date

Parent/Guardian's email address

Student's email address

Address

City State Zip

Home phone number

Other number

Preferred calling times