



# Mathematics II Essentials

Learning begins today. We can't change yesterday. But together, we can know where learning begins today and chart the best course toward the brightest possible tomorrow.

**Teacher contact information:**

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Sunrise Mountain High School  
2575 Los Feliz St. Las Vegas, NV 89156

**Course Scope:**

This course is designed for students with a rigorous study of Euclidean geometry using Common Core Standards. It incorporates problem solving, reasoning, modeling, and effective communication in the study of transformational geometry, trigonometry, measurement, and probability. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The use of mathematical tools and technology, including calculators and computer software, is an integral part of this course. This course fulfills one of the mathematics credits required for high school graduation.

**Course Goals:**

1. Basic Geometry Vocabulary and Constructions. [CCSS]
2. Transformations in the plane, understand congruence in terms of rigid motions and make geometric constructions. [CCSS: G.CO]
3. Similarity transformations, prove theorems involving similarity and define trigonometric ratio and solve problems involving right triangles. [CCSS: G.SRT]
4. Apply measurements about circles and find arc lengths and areas of sectors of circles. [CCSS: G.C]
5. Use Volume formulas to solve problems and visualize relationships between two-dimensional and three-dimensional objects. [CCSS: G.GMD]
6. To apply geometric concepts in modeling situations. [CCSS: G.MG]
7. To understand independence and conditional probability and interpret data and use the rules of probability to compute probabilities of compound events in a uniform probability model. [CCSS: S.CP]
8. To use probability to evaluate outcomes of decisions. [CCSS: S.MD]

**Course Structure:**

- First Quarter
  - Basic Terms & Constructions
  - Transformations in the Plane
  - Coordinate Geometry
  - Proofs
- Second Quarter
  - Triangles & Quadrilaterals
  - Similarity
- Third Quarter
  - Right Triangles & Trigonometry
  - Probability

- Fourth Quarter
  - Circles/angles/constructions/segment lengths
  - Polyhedron Volumes and Areas

### **Textbook(s):**

There will not be a textbook required.

### **Mountain Mindset:**

These are the four core principles that will make you a successful student at Sunrise Mountain High School and it is our hope that development of these character traits will help Sunrise Mountain students be successful in all of their future endeavors.

- Show RESPECT for your community, school, family, peers, and most importantly YOURSELF.
- Demonstrate KINDNESS.
- COMMIT to education for your future.
- PERSEVERE – Climb YOUR mountain!

### **Grading:**

Sunrise Mountain High School has adopted a school-wide grading system of utilizing a modified version of the Minimum F. All grades will be calculated and entered into the grade book with the lowest possible score being 50% of the total points, **provided an effort has been made and the assignment has been turned in to the teacher. IF an assignment is missing for any reason (refused to complete the assignment, absent, etc....) the grade will be entered into the gradebook as a “0%”. The teacher will allow the student to make-up the assignment and the new grade will replace the “0%”. IF the student does not make-up the assignment, the grade of “0%” will remain in the gradebook.** All assessments in a class will be entered into the grade book under two different categories as follows: Formative, 20% of the quarter grade and Summative, 80% of the quarter grade. Teachers will determine into which category (formative or summative) graded activities will be placed. Typically, formative assessments are activities such as homework, classwork, journal entries, etc. which are used on a daily basis to measure students’ progress toward mastery of standards; whereas, summative assessments are activities such as unit tests / quizzes, embedded assessments, research papers/projects, performances, etc... which are used at the end of a unit of study to measure students’ mastery of standards.

### **Semester Grades:**

- 40% - first/third nine weeks
- 40% - second/fourth nine weeks
- 20% - semester/final exams

Quarter and semester grades will be issued in keeping with the CCSD Grading Scale as follows:

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

### **Grade Access:**

Parents and students may access grades at any time using the Infinite Campus Portal. Grades will be accurate in real time as teachers input assessments into their grade books.

### **Academic Dishonesty:**

Academic dishonesty will not be tolerated. If a student is caught cheating on any assignment, a Minimum F will be issued. During a test or quiz, talking is considered as cheating and the grade will result in a Minimum F. Students caught cheating will also be referred to the Deans’ Office for additional behavior consequences.

**Supplies:**

The CCSD provides necessary supplies for all students to meet their educational needs. However, we know that sometimes parents choose to buy school supplies for their child. Should you decide to do this, the following are items that would be appropriate for your child's class. The following is a list of suggested items which will greatly help your student be successful and are not mandatory:

- 1 inch binder/Notebook
- Pencils
- Eraser

Please have these supplies by the second week of school. If student is not able to purchase these items, please notify the teacher as soon as possible.

**Tardiness, Make-up Work and Late Work:**

- **Tardy Policy (School Wide):** Tardy lock-outs occur every period, every day. You must be in class BEFORE the late/tardy bell. Students who are late to class will be sent to the deans' office to get a tardy pass and the following disciplinary actions will be enforced if you are tardy to class:  
**1<sup>st</sup> Tardy – Deans' Detention (After School).** Failure to attend Deans' Detention will result in Required Parent Conference (RPC) before returning to school.  
**2<sup>nd</sup> Tardy - Required Parent Conference (RPC).** Parent must come to meet with deans' office before returning to school.  
**Additional Tardy – Required Parent Conference (RPC).**
- **Make-up Work (School Wide):** Students need to make arrangements with their teacher after an absence to obtain and complete missing work.
- **Late Work (School Wide):** In order to ensure student mastery and success, students are permitted, encouraged and should, turn in all work, including late work. Students who do not turn in their work will be assigned an academic detention. A 10% reduction in points will be assessed on all late assignments not completed in academic detention.

**Progressive Discipline Policy:**

- First Offense: Verbal Warning
- Second Offense: Phone Call Home & Conference with Student
- Third Offense: Guidance Referral (May result in Parent-Teacher conference)
- Fourth Offense: Dean's Referral

## Sunrise Mountain High School Commitment Contract

1. I have read the information contained in this document.
2. I agree to follow the rules and guidelines of the Clark County School District and Sunrise Mountain High School.
3. I agree to follow all behavior guidelines for students and maintain an attitude in accordance with the ***Mountain Mindset***.
4. I agree to make the commitment to work as hard as possible to become the best student I can be.
5. I understand that violations of the rules described herein may result in meeting with the teachers, detention, parent conference, and/or Deans' Office referral.

Name of Student: (please print) \_\_\_\_\_

Signature of Student \_\_\_\_\_

Student E-mail Contact \_\_\_\_\_

Name of Parent/Guardian (please print) \_\_\_\_\_

Signature of Parent/Guardian \_\_\_\_\_

Parent/Guardian E-mail Contact \_\_\_\_\_

Parent/Guardian Phone Number \_\_\_\_\_

Primary language spoken in the home: English / Spanish / Other \_\_\_\_\_