

El Modena High School – 2018/2019

Math II Management Plan

3920 Spring Street, Orange, CA 92869

Math II

Mrs. Merlihan, Room 201

Course Overview

Math 2 students will be using a new textbook this year: *Mathematic II*, published by Pearson. This design of the course meets the College and Career Readiness Standards for Mathematics by providing a greater emphasis on conceptual understanding, connecting the concepts throughout the course and applying mathematical practices to everyday life. The focus of Mathematics II is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Mathematics I as organized into 6 critical areas, or units. The need for extending the set of rational numbers arises and real and complex numbers are introduced so that all quadratic equations can be solved. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles, with their quadratic algebraic representations, round out the course. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Recommended Materials

Textbook: *Mathematic II* – by Pearson
Pencil and eraser
Scientific calculator
Spiral notebook
Lined paper

Cell Phones

Cell phones or any electronic devices will not be used during direct instruction. Netiquette points will be lost by students who are using cell phones or electronic devices at inappropriate times.

Attendance

Good attendance is necessary for success! It is the student's responsibility to complete any missed assignment for excused absences that include absences due to sports, assemblies, field trips and etc. Truant work cannot be made up and will result in a zero.

Class Rules

1. *Be Punctual* – Be in your assigned seat and ready to work when the bell rings. Bring HERO if tardy.
2. *Be Respectful* – Show respect to others in speech and in actions. Keep your behavior under control at all times. Follow directions.
3. *Be Neat* – Take pride in your school and your appearance. Keep desk and books free of marks. Help clean up any mess in and around our classroom. Complete all assignments neatly and carefully.

All El Modena School rules will be enforced. Learning cannot take place in a non-productive environment. Behavior interfering with the learning process will not be tolerated. If a student makes a choice to ignore their responsibilities in the classroom, the following consequences will apply daily:

- 1st offense – teacher warning/consequence
- 2nd offense – teacher consequence and phone call home
- 3rd offense – phone call home/referral
- 4th offense – referral to room 402

Grades are very important. Please ask for help when you find the need. I am here to help you succeed. El Modena's Academic Policy will be followed. Any cheating results in a ZERO. A semester grade of C or better is required to move to the next course.

Grade Scale

98% to 100 %	A+	80% to 82%	B-
93% to 97%	A	78% to 79%	C+
90% to 92%	A-	73% to 77%	C
88% to 89%	B+	68.5% to 72%	C-
83% to 87%	B	0% to 68.4%	F

Assignments, Quizzes and Tests

Classwork will be assigned daily and will be collected or checked for classwork/participation points. Homework will be assigned daily. Late assignments will receive half credit. Quizzes will be given periodically/daily as a formative assessment. Corrections will be offered for all quizzes. Tests will be given mid-chapter and at the end of every chapter. Students will be able to retake tests by completing test corrections and meeting with the teacher outside of class. All test retake scores will be averaged with the original test grade. A final exam will be given at the conclusion of each semester.

Category Weights for Grades

Homework	15%
Quizzes	20%
Classwork	10%
Netiquette	5%
Tests	35%
Final Exam	15%

Course Contents

Chapter 0 – Tools of Geometry
Chapter 1 – Reasoning and Proof
Chapter 2 – Proving Theorems about Lines and Angles
Chapter 3 – Congruent Triangles
Chapter 4 – Proving Theorems about Triangles
Chapter 5 – Proving Theorems about Quadrilaterals
Chapter 6 – Similarity
Chapter 7 – Right Triangles and Trigonometry
Chapter 8 – Circles
Chapter 9 – Surface Area and Volume
Chapter 10 – Properties of Exponents
Chapter 11 – Polynomials and Factoring
Chapter 12 – Quadratics
Chapter 13 – Probability

Pearson EasyBridge

Pearson Easy Bridge contains the online textbook and assignments. Students access this program through myOUSD Dashboard. Students will have homework through EasyBridge with each chapter. This online homework includes videos and help to solve problems.

Group Work

Students will be working in groups and with partners throughout the year to promote the development of communication and collaboration skills.

Office Hours

Lunch time – Tuesday through Thursday
4th period – Monday through Thursday
After school – Tuesday and Thursday

Contact Information

Remind app – preferred method
Email – kmerlihan@orangeusd.org
714-997-6331 Ext 3601 – leave a message

About Mrs. Merlihan

Room 201 where math magic happens!!!

My name is Mrs. Merlihan and I am your Mathematic II teacher. I am a life-long learner and hope you will be the same. I earned my Bachelor of Science in Electrical Engineering from Marquette University in 1987. I received my teaching credential from Cal State – Fullerton. I received my Masters in Educational Technologies from Cal State – Fullerton. My engineering background will help you realize how important mathematics is in day-to-day life. One of my goals for this school year is to create a solid foundation of mathematical thinking for you. I hope that this foundation will lead you to further your education in mathematics. Students will learn to think critically when solving real world problems. Problem solving is a highly desired skill in our ever-changing technological world and modern work place. Students will have the opportunity to work together with partners and in groups and activities that will strengthen their communication skills. I believe students can be successful in mathematics by focusing and completing their work and coming in for help when needed. I also believe the process of solving problems improves your ability to logically think through and tackle obstacles encountered in your life. I am here to help you be successful!

Good luck this year and let us have some fun learning mathematics. Many of the concepts we learn throughout the year will build upon themselves. It is extremely important to stay on track and ask for help when needed. Be a Vanguard. Be in the front of the pack as a leader.

