

MATHEMATICS

ADVANCED MATH 3 SYLLABUS

Dear Student and Parent,

I believe that all students can learn Mathematics and they have the capacity to become mathematically competent, when provided with a rigorous and challenging program supported by high expectations.

Mathematics is an important course for further study and practice in real life careers and applications in business, industry, government, trade and services, technical, vocational and other professional pursuits.

In Mathematics 3, students understand the structural similarities between the system of polynomials and the system of integers. Students draw on analogies between polynomial arithmetic and base-ten computation, focusing on properties of operations, particularly the distributive property. They connect multiplication of polynomials with multiplication of multi-digit integers and division of polynomials with long division of integers. Students identify zeros of polynomials and make connections between zeros of polynomials and solutions of polynomial equations. Their work on polynomial expressions culminates with the Fundamental Theorem of Algebra. Rational numbers extend the arithmetic of integers by allowing division by all numbers except 0. Similarly, rational expressions extend the arithmetic of polynomials by allowing division by all polynomials except the zero polynomial. A central theme of working with rational expressions is that the arithmetic of rational expressions is governed by the same rules as the arithmetic of rational numbers.

The Standards for Mathematical Practice complement the content standards so that students increasingly engage with the subject matter as they grow in mathematical maturity and expertise throughout the elementary, middle, and high school years.

I look forward to working with you. Together, we can learn and do Math with C.L.A.S.S.!

Sincerely yours,

Mr. Nelson

Classroom Expectations

Learning Expectations:

- 1. Be critical thinkers.**
- 2. Be lifelong learners.**
- 3. Be successful.**

Behavior Expectations:

- 1. Be prompt.**
- 2. Be prepared.**
- 3. Be polite.**
- 4. Be positive.**

Communicate-Collaborate-Care

Be ready to collaborate by taking an active role in learning with a variety of instructional formats, such as small groups, individual exploration, peer instruction, whole class discussion, and project work.

1. In cooperative groups or study teams:

- Each member of the team is responsible for his/her behavior.
- Assign roles and tasks for team members.
- Each member of the team must be willing to help any other team member who asks for help.
- Ask the member for help when all team members have the same question.
- Use a team voice.

2. Use of Technology

- The use of calculators, internet, and online technology will be encouraged to enhance learning per teacher's discretion and instructions.

3. Assistance

- I will be available before school from 7:00 a.m. to 7:20 a.m. every day or after school from 2:30-3:30. Please feel free to contact me by email or phone.

4. Other forms of communication:

- Register and use Remind.com for other announcements: **Text to 81010 and in message area type: @p2advmath3 for period 2 and @p4advmath3 for period 4.**

Grading Policy

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The semester grade for this course is based on the following categories:

(75%) = Tests and (15%) Quizzes

Absence on a test date **MUST** be cleared with attendance office. Individual quiz checks for understanding of new topics. Team quiz helps in preparation for a test. It is the review worksheet discussed in small groups and/or as a whole class.

(10%) = Participation and Classwork/Homework/Projects including Think Through Math (TTM) lessons

Class Participation: The cultivation of good habits can be found in successful students. Learning and behavior expectations should be met by following class rules, procedures and routines. Attendance should be regular in order to fully participate.

Classwork/Homework: Guided and independent practice in class and at home is crucial in developing the skill needed for mastery of a mathematical concept and achievement of the standard. It is important that the student returns the homework on the day it is due. **Late homework will not be accepted.**

Projects:

Individual and/or group projects will be assigned to enhance and create meaningful activities in the math classroom. Emphasis is on mathematical reasoning via problem solving activities.

Excused absence(s) will be allowed 2 days of make-up from the return/report date of the student.

The student is totally responsible for doing all of their work and accepting the consequences for not doing their work. There is no extra credit for missed work. All work must be turned in when due. *I will not accept late work.* All tests and quizzes not taken at the assigned time will result in the student receiving a zero.

Percentage	Grade
90% - 100%	A-/A/A+
80% - 89%	B-/B/B+
70% - 79%	C-/C/C+
60% - 69%	D-/D/D+
Below 60%	F

Required Materials

School Supplies/Materials

Be always prepared by bringing your basic supplies/materials as needed in class:

- Textbook: Each student will be issued a Pearson EnVision Math 3 and a Pre-Calculus book that can be left at home.
- Supplies: Each student is responsible to have his/her supplies in class **everyday!** This includes:
 - Pencils and Pens
 - Scientific Calculator

Please contact me if this deadline cannot be met or if obtaining any of these items will be difficult.

BELOW ARE SOME OF THE CLASSROOM EXPECTATIONS. PLEASE READ CAREFULLY

CLASS EXPECTATIONS

Since you are in this class, you have successfully completed the necessary math work Math 1. Since the California State Department of Education has created higher expectations with their new Mathematics Content Standards, the district and the high school has committed to following those standards and has also raised its standards and expectations. You are **expected** to use the knowledge that you have acquired in those previous math classes and continue to ascend the ladder of mathematics successfully. Therefore, your expectations of me, yourself, your classmates, and this class should be very high. You have to take this course to prepare you for math in the future so I expect you to take the initiative to be active learners in the class. Each day you walk into this room, you should be ready to learn, teach, and discuss math at a high level. I will accept nothing less than **100%** effort each day. This course requires you to spend more time than in the past on your math work both inside and outside of class. You should be ready to work individually, in a group, and as a class. I expect you to use your past mathematical experiences and your desire to learn and succeed to explore and learn new mathematical concepts **intrinsically**. **You and you only are responsible for your grade in this class.**

CLASSROOM EXPECTATIONS

1. There will always be a warm-up assignment for you to begin the math class. It will take between 1 to 20 minutes to complete, depending on the assignment. The teacher will release you from class, not the bell. Once you enter the room, be prepared to work from bell to bell.
2. PLEASE DO NOT BRING FOOD, DRINKS, GUM, CANDY, ETC., INTO THE CLASSROOM AT ANY TIME WITHOUT PERMISSION. YOU WILL NEVER BE ALLOWED TO CHEW GUM IN THE CLASSROOM.
3. My name is Mr. Nelson. You can answer me with a yes sir; no sir; coach or Mr. Nelson, nothing else!! I will always strive to treat you with the utmost respect and I will demand it from you. Furthermore, you will treat your fellow classmates, guests, substitutes, and the room with respect. When someone in the class is talking, show them respect by listening attentively, not talking with someone else, and not doing something else. The most important person to listen to is someone who may be asking a question, answering a question, or discussing anything in math or something school-related. Please do not ask for someone to repeat something due to the lack of your respect or attentiveness. **SHOW CLASS!**
4. You will be responsible to maintain the cleanliness of the room and any classroom property at all times. If you see someone writing or something written on your desk, please let me know, otherwise you are responsible for the cleaning of that desk. The class will not be released until the cleanliness of the room is acceptable to the teacher and the students.
5. Put away all make-up and electronic devices **before** entering the room. Electronic devices will be confiscated and given to security per school policy.
6. Be respectful of the property and feelings of everyone in the class.
7. You will never be excused to go to any other class during our class time. Our class time is very valuable to achieve our goals and objectives. Should you need to use the restroom urgently, a pass will be provided after the first hour of class and/or you are finished with your work---at my discretion.

ATTENDANCE

Being successful starts with attending class every day. Missing quizzes, tests, and/or new material because of absence usually result in lower grades. You need to be responsible for attending class and being prepared to learn. If you are absent, you must clear the absence prior to accepting or delivering missed work and assignments. **You** are responsible to determine what you missed and responsible to make up that missed work. **You** are expected to know the material that we discussed as a class. I will not accept any work from that absence if your absence is not cleared (you will also lose all points on those assignments). If you know you will be absent in advance, you must let me know so you can get the work and any other material. The work will be **due the day you return** or it will not be accepted. **Your parent/guardian must contact me via email when you miss a test/quiz and explain to me that they know you missed the exam and you are responsible to make it up when you return from your absence.**

TARDY POLICY

All students must be seated in their assigned seats prior to the sound of the tardy bell. Any student not in assigned seat may be asked to stay after class and be required to do additional work whether in math, or the assistance in cleaning the room. You will not be given any additional time to complete any work missed during the time you missed in class due to your tardiness. Please do not disrupt the class or tell me excuses about your tardiness. If you have a pass, just place the pass on my table up front. As per VMHS policy, tardies will be recorded and consequences will follow.

GRADING

The student is totally responsible for doing all of their work and accepting the consequences for not doing their work. There is no extra credit for missed work. All work must be turned in when due. I will not accept late work unless prior notice has to why you could not get it done (the late assignment may result in less than full credit). All tests and quizzes not taken at the assigned time will result in the student receiving a zero.

Note to Parents/Guardians

It is an honor to have your son/daughter in my Advanced Math 3 class. This class will challenge them with a heavier workload and prepare them for more advanced math. Most of their homework will be from the textbook but there will be many times throughout the year I will ask your child to download and print some papers from my website (go to school website then teachers). Your child will have daily homework, benchmark quizzes, section quizzes, tests, finals, and other classroom and outside activities. Please feel free to call me at school at **894-5750 ext. 6661** or email me at **hnelson@murrieta.k12.ca.us** if there are any questions or concerns you may have.. I look forward to meeting you at Back to School Night.

Mr. H. Nelson

Advanced Placement Statistics, Math 3, & Advanced Math 3

Varsity Softball Coach

Math Department Chair

Please complete the information below.

Parent Email Address: Please email me that you have read and confirmed the information. On the email, please write your child's name in the subject line. This is for credit for first homework assignment.