



MULTICULTURAL HIGH SCHOOL

999 Jamaica Avenue
Brooklyn, NY 11208
Telephone: 718-827-2796 Fax: 718-827-3970



RESPECT • TENACITY • COLLABORATION • INNOVATION • PERSEVERANCE

Algebra 2 syllabus

Course Description:

Welcome to Algebra 2! This course is designed to equip students with advanced solving, interpretation, and critical thinking skills required for post-secondary education and the workforce. Using **E-MATH Instruction** as our primary curriculum, students will immerse themselves in a diverse range of problem solving, advanced graphing, and refine their mathematical skills. This regents exam can only be taken in English therefore, we will be working on our English proficiency in regards to math throughout the school year.

Over the course of this academic year, students will:

- Engage with college ready problems that foster a deeper understanding of math. From graphing trigonometric functions to solving problems with imaginary numbers, we will delve into problems that challenge, inspire, and resonate.
- Analyze word problems based on real world scenarios. By deconstructing the components of these word problems, students will hone their analytical and critical thinking skills, gaining a nuanced understanding of what they may come across in their professional lives.
- Participate in thought-provoking discussions and debates, fostering a collaborative classroom environment where diverse perspectives are heard, respected, and valued.

Course Objectives:

- Dive deep into real world problems and advanced mathematical practices, understanding the social and real world connections.
- Analyze complex word problems.
- Develop advanced problem solving skills: justifying, explaining and demonstrating.
- Conduct and present work efficiently and ethically.
- Engage in critical discussions, debates, and presentations.

Course Outcomes:

By the end of this course, students will be able to:

- Demonstrate and explain a deeper understanding of higher algebraic solving processes.
- Apply critical thinking skills to interpret and respond to a variety of problems.
- Write explanatory statements/ paragraphs with clarity, precision, and sophistication.
- Present ideas confidently in both oral and written form, incorporating appropriate evidence and supporting work.
- Recognize, analyze, and apply mathematical theories in both reading and writing.



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- Successfully complete a research project that includes accurately cited sources and a well-structured argument.

Class Discipline Policy:

- **Attendance and Punctuality:** Regular attendance is vital in math where discussions and collaborative learning are frequent. Repeated absences or tardiness can disrupt the learning continuity and will impact your grade. If you must be absent, please inform the teacher beforehand and make arrangements to catch up on missed work.
- **Respect for Mathematical Language:** Students should approach each problem and discussion with an open mind and respect for the diverse voices and cultures represented in our problems. Disparaging remarks about real world problems will not be tolerated.
- **Active Participation:** Math thrives on participation. Students are encouraged to actively engage in class discussions, share interpretations, and ask questions. However, it's crucial to ensure that everyone has an opportunity to speak, so please be patient and allow your peers to finish their thoughts.
- **Written Work Integrity:** All submitted work should be original. Plagiarism undermines the core principles of math and will result in a zero grade for the assignment, this includes the use of AI on assignments. Students should seek guidance on proper solving methods when unsure.
- **Preparedness:** Come to class prepared. This means having completed the assigned problems, bringing necessary materials (math tools, notes, writing tools), and being ready to contribute to discussions and group activities.
- **Respect for Classroom Space:** This isn't just about physical tidiness, but also about creating a mental space conducive to learning. This includes not doodling on desks, writing in textbooks, or leaving trash behind. It also pertains to the emotional and psychological space we're cultivating - one of acceptance, intellectual curiosity, and mutual respect.



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Student Evaluation:

Classwork • Handouts • Assignments (may include (but are not limited to) readings, videos, discussion prompts, group work, projects, tests, essays, portfolios, labs, and assignments posted through other applications such as Google Classroom, Edia, and/or similar platforms.) * Students are expected to participate respectfully and use appropriate academic language. * Students are expected to take responsibility for their learning by communicating regularly about absences (including bringing in a note), illness, and other issues and to get academic help.	30%
Classwork • Handouts • Assignments on Edia * Students are expected to complete homework in a timely manner. * Students are expected to take responsibility for their learning by communicating regularly about technological issues and personal issues preventing homework completion.	10%
Assessments • Quizzes/Exit Slips • Projects/Labs • Tests (Including Regents Examinations & Unit Exams) * Students are expected to complete all assignments assigned by teachers. * All work must represent the student's own authentic effort.	70%
Total	100%

* Please note that this syllabus is subject to change depending on the instructor's evaluation of class



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progression. Texts may be added, removed, or substituted to meet the determined needs of the class. Should you have any questions or concerns, please feel free to reach out to the instructor during office hours or by email.