



East Brunswick Magnet School

Algebra II

MRS. ZAJAC

COURSE DESCRIPTION: This course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, and concepts and includes the study of various functions. The content of this course is important for students' success on both the ACT and the SAT college mathematics entrance exams.

COURSE OUTLINE:

- Unit 1: Functions
- Unit 2: Linear and Absolute Value Functions
- Unit 3: Quadratic Functions
- Unit 4: Polynomial Functions
- Unit 5: Rational Functions
- Unit 6: Radical Functions
- Unit 7: Exponential and Logarithmic Functions
- Unit 8: Statistics

GRADING:

80% CONTENT KNOWLEDGE - ASSESSMENTS

This category refers to the evaluation of your understanding and knowledge through formal assessments, such as tests, quizzes, or exams. These assessments are designed to measure how well you have grasped the subject matter and concepts taught in the mathematics curriculum. The assessment category carries the most weight in the overall grade. Reassessment in the form of a different version will be available to encourage continued improvement.

Assignments should meet the following criteria:

- No teacher assistance
- Questions include multiple levels of difficulty including enrichment
- Completed in classroom under supervision
- **Every topic quiz can be retaken with the new grade fully replacing the old. You are required to complete remediation work before retaking the quiz.**

20% FORMATIVE TASKS - CLASSWORK/HOMEWORK/PARTICIPATION

Formative tasks include a variety of activities that will help you learn and progress throughout the course. These tasks might involve homework assignments, in-class exercises, group discussions, or group work. Unlike assessments that are more summative in nature, formative tasks are designed to provide ongoing feedback and assist you in your learning process. This category emphasizes continuous improvement and active engagement in the learning process.

Included:

- Classwork
- Homework
- Math Practice Check-Ins
- Online platform assignments (DeltaMath, IXL, Desmos, Graspable Math, etc.)

Grading

- This is the grading system for the five-question quizzes:

Number of Problems Correct	Score	With Notes	Proficiency Level
0/5 (attempted)	10	10	Requiz
1/5	25	25	Requiz
2/5	50	50	Requiz
3/5	80	73	Proficient
4/5	90	83	Advanced
5/5	100	93	Mastered

CLASS MATERIALS:

- A dedicated notebook/binder or folder is suggested to organize notes, and a writing utensil is required to be brought to class each day.
- Chromebook to use for online assignments.
- Graphing Calculator TI 84 if you have your own since there is a limited number of calculators in the classroom.

CLASS POLICIES AND EXPECTATIONS:

- Students must come to class on time and prepared.
- No cellphones will be permitted to be used in class except during special assignments.
- Parents will be notified in the event of abuse of the policy.
- Assignments must be completed in a timely manner and reflect the student's own work; academic honesty is expected (i.e., no copying, cheating, plagiarism).
- If for any reason the teacher believes that a student has broken academic integrity during an assessment (communicating with others, having electronic devices, etc), the teacher may request that a student retake a different but similar assessment at another time.
- In the event of an excused absence, it is the student's responsibility to get notes or assignments from a classmate or Google Classroom.

CONTACT INFORMATION: Feel free to email Mrs. Zajac at zajacm@mcmsnj.net.

EXTRA HELP: Tutoring is available before and/or after school during Homework Club. Struggling students will be encouraged to attend, so they have a successful year!