

Naperville North High School

Algebra 2



Department Chair: Tim Brown
Office: Math Office Room 206
Email: tbrown@naperville203.org

Mission

To educate students to be self-directed learners, collaborative workers, complex thinkers, quality producers, and community contributors

Course Description

This course is a continuation of the principles learned in Algebra 1 with added emphasis on abstract reasoning. Topics include factoring, exponents, radicals, properties of graphs, polynomial functions, irrational numbers, imaginary numbers, exponential and logarithmic functions, probability and statistics. Algebra 2 is an essential course for those who plan to continue the study of mathematics in high school and college. A graphing calculator is recommended. Graphing calculators will be required for all math classes beyond Algebra 2.

Course Standards

- Equations and Inequalities
- Quadratic Functions
- Polynomials
- Rational Exponents & Radicals
- Rational Equations
- Exponential & Logarithmic Functions
- Trigonometry
- Counting and Probability
- Statistics

Grading Practices

Grades communicate each student's progress toward mastery of goals/standards for the course.

- No extra credit will be issued.
- Academic behaviors can be included in the grade calculation when they are critical to student success in the course and those behaviors are taught and practiced in the classroom.
- In Infinite Campus, a score of "Missing" (M) will indicate an assessment has not been turned in and the comments section will include a specific date by which students can still submit. After that date, a zero (0) will be recorded.
- "Practice" is a fundamental part of the learning and preparation process and will not be accepted after the due date unless specifically requested by the teacher.
- "Evidence" submitted after the original due date cannot be penalized more than a total of 10% and must be submitted no later than one week (5 school days) after the original due date.
 - If a legitimate attempt is made on an assessment, a score of 50% will be the lowest possible grade.
- Violations of the academic integrity policy will be consequence by the administration in collaboration with the department chair/teacher.
- Posted grades represent the grade that students would earn if they transferred out of a class today.

Grading Disbursement

A= 100-90% B= 89-80% C= 79-70% D= 69-60% F= 59-0%

Semester Grade:

- Coursework = 85% [Evidence = Test (60%) and Quizzes (30%); Practice/Homework (10%)]
- Final Exam = 15%

Reassessments:

The purpose of reassessment is to allow students to demonstrate mastery of course standards in which they remain deficient. Higher reassessment grades will replace the original assessment score, but will not exceed 85%.

- Practice work is not eligible for reassessment.
- Evidence of Learning work may be eligible for reassessment. Refer to the chart below for eligibility:

<input type="checkbox"/> The assessment included multiple opportunities for feedback and improvement in the process for the final product OR formative assessments are aligned to standards, allow students to practice in the same assessment format, and gain feedback for improvement before the summative assessment.	<input type="checkbox"/> There was timely and consistent completion of practice work and formative assessments. <input type="checkbox"/> A one-time performance on an assessment does not reflect the student's level of proficiency leading up to the assessment. <input type="checkbox"/> Summative assessment score is below 85%.
Not eligible for reassessment	Eligible for reassessment if all three statements above are true.

Reassessment Parameters:

- The reassessment opportunity will require designated learning experiences that demonstrate readiness as assigned by the teacher.
- Reassessments MUST be completed within 5 school days of the student receiving feedback unless otherwise determined by the instructor. The reassessment deadline should be communicated in an IC comment.
- The final reassessment score will be capped at 85%

Academic Integrity Code:

District 203 students are challenged to address the academic process enthusiastically, diligently, and most importantly, honestly. It is the responsibility of our students, teachers, and administration to uphold the fundamental academic values of honesty, responsibility, fairness, respect and trust. The integrity of our district's academic programs is built upon these principles.

Academic integrity violations include cheating, plagiarism, self-plagiarism or copy infringement, obtaining or providing an unfair advantage, using a writing service and/or AI in place of original work unless specifically authorized by staff, falsification of documents, unauthorized access to records, and inappropriate collaboration, whether intentional or unintentional. The classroom teacher and administration will collaborate and exercise professional judgment in determining academic integrity violations.

D203 AI Belief Statement:

At Naperville North High School, we strive to build a learner's mindset in all students, developing qualities such as adaptability, communication, critical thinking, and global citizenship. Generative Artificial Intelligence (AI), offers new opportunities to engage with important technology relevant to the future that also raises significant

educational considerations. AI tools provide unique ways to engage students in the learning process, hence we encourage our staff to guide students in using AI responsibly. Teachers have the authority to establish guidelines for AI use in their classrooms, setting clear expectations for how AI can be used on learning tasks. Concurrently, we recognize that reliance on AI risks replacing genuine student engagement and original thought, undermining the attributes we aim to cultivate. Striking a balance between leveraging AI tools effectively and maintaining educational standards is crucial to the learning experience of each student.

Math Support

Math Support is a Tier 2 intervention that takes place during the first half of each lunch period. Students who have engaged in Tier 1 (classroom) learning and support but who still do not demonstrate mastery of the essential learning standards on the test at the end of a unit of study will be assigned to Math Support. Students will work with two math support teachers to address any misconceptions of the essential learning standards. Once they demonstrate mastery of the essential standard, they will be exited from this support with a reassessment score of 70%. If this support is necessary, the classroom teacher will initiate this mandatory schedule change. Parents and students will receive notification of the schedule change from the Math Department Chair.

Additional Resources for Support

- Make an appointment with your teacher.
- Drop in for Peer Tutor/Math Help through the Literacy Center.
- After-School Tutoring in Learning Commons (check with Student Services for schedule.)
- Online Resources:
 - Digibook Algebra 2: <https://naperville203algebra2.weebly.com/>
 - Digibook Algebra 1: <https://naperville203algebra1.weebly.com/>
 - Canvas (notes, practice): <https://naperville.instructure.com>
 - Khan Academy Algebra 2: <https://www.khanacademy.org/math/algebra2>

Parents & Guardians/Communication

Naperville North believes in a collective partnership with parents/guardians which provides students the best opportunities for success.

Some ways parents/guardians can support their student's learning are:

- Encourage your student to speak directly with their teacher about questions or concerns.
- Actively check Infinite Campus for their student's grade.
 - o Infinite Campus is a tool to monitor student progress until final course grade is posted.
 - o Monthly progress grades are posted and represent the current grade of a student in the course at that moment in time.
- Discuss missing assignments, reiterate due dates, help organize folders, materials, assignment notebooks and review upcoming projects and assessments.
- Teachers make every effort to respond to parent emails and phone calls within 24 hours during the work week.
- The best way to communicate with teachers is through email; however, if you haven't received a response within 48 hours, please resend the email or call their voicemail. Your email may have been filtered.