

Naperville North High School

Algebra with Geometry



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Mission

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

Course Description

This course is designed for students who have a mastery level of integer and fraction operations, solving linear equations and an introduction to linear functions. This fast-paced course will allow students to complete Algebra 1 and Geometry in one year. A major emphasis will be placed on the integration of algebra and geometry skills and concepts. **Students with a grade lower than 73% at semester will be placed in Algebra 1 second semester.** Students successfully completing this course will meet the Illinois state graduation requirements for both Algebra 1 and Geometry. A graphing calculator may be used in this course, but is not required (TI-84 + recommended if purchasing). *Note: some portions of our course are considered no calculator. Desmos.com can be used as a free alternative to a graphing calculator.*

Students entering Algebra with Geometry should be able to:

- Solve equations: one-variable, variables on both sides, no solution/ininitely many solutions, literal equations, function form
- Graph linear equations: from a table, using slope-intercept form, using intercepts, rate of change, identifying slope
- Use Distributive Property
- Exhibit self directed and perseverance behaviors

Course Topics

- Linear Functions
- Polynomial Expressions
- Right Triangles
- Circles
- Quadratic Functions
- Exponential Functions
- 2-D Figures: properties & area
- 3-D Figures: surface area & volume

Grading Calculation Definitions

At Naperville North we define formative and summative work as follows:

- Formative work is used to monitor student's learning to provide ongoing feedback that can be used by students to improve their learning. Examples may include: practice activities, homework, quizzes, etc.
- Summative work is used to evaluate student learning at the end of an instructional unit or segment of learning by comparing it against a standard or benchmark.

Grading Practices

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

- No extra credit will be issued.
- Violations of the academic integrity policy will be consequence by administration in collaboration with the DC/teacher.
- Any percentage lower than 50% will be put into the grade book as a 50%, the lowest possible grade on completed work (incomplete or work not turned in will be entered as a 0 in the grade book).
- **Formative work:**
 - Accepted up to the end of each unit for full credit (date determined by teacher on calendar)
 - Formative work submitted beyond deadline will receive maximum score of 80%
- **Summative work:**
 - A zero on a summative assessment will only indicate that no attempt was made by the student

Grading Disbursement

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

Semester Grade:

- Coursework = 85% (Summatives= Target Mastery 90%, Formatives= Practice/Homework 10%)
- Final Exam =15%

Academic Integrity Code Statement

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, but are not limited to, cheating; plagiarism, self-plagiarism or copy infringement; obtaining or providing an unfair advantage; 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.

The use of translating devices and/or direct translation from a native speaker or tutor is strictly forbidden. You must do your own work. Remember: There is a significant difference between getting help and having something or someone else do your work for you. There are consequences both academic and non-academic for students who do not adhere to this policy. Violations will be tracked and added during your time at NNHS.

Reassessment Policy

Students will be provided multiple opportunities to demonstrate mastery of learning standards. The purpose of reassessment is to allow students to demonstrate mastery of course standards in which they remain deficient.

- Students will be allowed to reassess on any summative assessment if they so choose up to a maximum score of 80%.
- To be eligible for reassessment, students must:
 - Demonstrate readiness for the summative assessment through completion of formative work. (80% of homework must be completed from particular target prior to the initial assessment in order to reassess)
 - Complete additional practice problems as assigned by the teacher

- Reassess within two weeks of receiving initial assessment grade (individualized dates to be determined by the teacher)
- Higher reassessment grades will replace the original assessment score (but will not exceed 80%).

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 1: <https://naperville203algebra1.weebly.com/>
 - Digibook Geometry: <https://naperville203geometry.weebly.com/>
 - Canvas (notes, practice): <https://naperville.instructure.com>
 - Khan Academy Algebra 1: <https://www.khanacademy.org/math/algebra>

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.
 - Infinite Campus is a tool to monitor student progress until final course grade is posted.
 - 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.