Morton Middle School
Course Syllabus

Instructor: Ben Citron	**Course:** Algebra I (270304)
Email: ben.citron@fayette.kyschools.us	**Canvas link:**

Course Description Algebra I:
*Course Required for Graduation. This course is the study of high school Algebra 1 content. Upon completion of the course, students should be able to: (1) extend the properties of exponents to rational exponents; (2) reason quantitatively and use units to solve problems; (3) interpret the structure of linear, quadratic, and exponential expressions; (4) write expressions in equivalent forms to solve problems; (5) perform arithmetic operations on polynomials; (6) understand the relationship between zeros and factors of first and second degree polynomials; (7) create linear, quadratic, or exponential equations that describe numbers or relationships; (8) understand solving equations as a process of reasoning and explain the reasoning; (9) solve equations and inequalities in one variable and solve systems of linear equations in two variables; (10) represent and solve equations and inequalities (including systems of linear equations and inequalities) graphically; (11) understand the concept of a function, specifically a linear, quadratic or exponential function and use function notation; (12) interpret linear, quadratic and exponential functions that arise in applications in terms of the context; (13) analyze functions (especially linear and quadratic functions) using different representations; (14) build a function that models a relationship between two quantities; (15) construct and compare linear, quadratic and exponential models and solve problems; (16) interpret expressions for functions in terms of the situation they model; (17) summarize, represent and interpret data on two quantitative variables; and (18) interpret linear models.

The course design follows the FCPS district pacing guide and curriculum framework, including common assessments. Upon course completion students should be able to meet the Kentucky Academic Standards for Algebra I.

Course Objective This course should be designed to meet the high school graduation credit for Algebra 1 and to build a solid foundation necessary for future high school mathematics courses. This course contains modeling standards.

Texts
enVision Algebra I (Savvas/Pearson). All students have access to a hardback textbook, online textbook and two workbooks (one issued each semester).

Supplies
Students are expected to come prepared each day with the following:
- Charged Chromebook
- Pencil
- Paper (binder or notebook)
- enVision student workbook

Course Information/ Sequence of Learning
1. Solving Equations and Inequalities
2. Linear Equations
3. Linear Functions
4. Systems of Linear Equations and Inequalities
5. Piecewise Functions

6. Exponents and Exponential Functions
7. Polynomials and Factoring
8. Quadratic Functions
9. Solving Quadratic Functions
10. Statistics

Grading

The grading and homework policies at *Morton Middle School* are designed to provide accurate assignment of grades with the intent to demonstrate a clear relationship between student performance and student learning. All parents/guardians and students are asked to review the homework policy at the beginning of the year.

School-wide, categories of grade distribution will be used: Summative (70%), Formative (30%). These categories are defined below:

- Summative Assessments include: Topic Tests, District Common Assessments and Major Quizzes
- Formative Assignments include: Small Quizzes, Homework and any other daily class work

In order to monitor your student's progress, please obtain a password to access your child's grade on the parent portal of Infinite Campus by contacting the guidance office.

Make-up Work Policy

It is the responsibility of the student to get make-up work from each teacher. For excused absences, students shall be allowed the same number of days to complete the make-up work, as they were absent, plus one (1) day.

Grading Scale

A: 90% - 100%
B: 80% - 89%
C: 70% - 79%
D: 60% - 69%
F: Below 60%