

[Insert SCHOOL NAME] Middle School Course Syllabus

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| Instructor: | Course: Algebra I (270304) |
| Email: | 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 and semester finals. Upon course completion, students should be able to meet all Kentucky Academic Standards for Algebra 1.

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

Texts

enVision Algebra I (Savvas). All students can access an online textbook.

Supplies (insert supplies here)

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 *[insert school name]* are designed to accurately assign grades and 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.

A **cumulative final** is required for each semester. The score will count in the grade distribution.

Categories of grade distribution will be used. These categories are defined below:

[Insert school grading category definitions & weights here--schools may consider a 60% summative/25% formative/15% final, each semester, in weights, to create consistency across the district]

To monitor your student's progress, please contact the guidance office to obtain a password to access your child's grade on Infinite Campus's parent portal.

Make-up Work Policy

It is the student's responsibility 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.

Late Work Policy

[insert school late work policy here]

Grading Scale

[insert school grading scale here]