



Algebra 1: Part 1

Course number: MA033_20_1

Credits: .5 credit

Prerequisites: None

INSTRUCTIONAL TEAM

Our Academic Advisors are also available to help you when you need it. They are trained to provide answers to your questions about the course or program.

Phone: 1-800-224-7234

Hours: 8:30AM – 8:30PM (Eastern Standard Time), Monday-Friday

MAIL

James Madison High School
5051 Peachtree Corners Circle, Suite 200
Norcross, GA 30092

Course Materials

All of your course materials are included in this course experience. You'll find it easiest to study this course by following these steps:

- Look over the syllabus, paying close attention to the course and lesson objectives.
- Read each objective. Pay close attention to main concepts and definitions.
- Complete each assignment as you come to it.
- When you've completed each assignment, look over the lesson review.
- When you're confident you understand the material, complete the lesson exam.

COURSE DESCRIPTION

The Algebra 1: Part 1 course focuses on transferring concrete mathematical knowledge to more abstract algebraic generalizations. In this course, you'll learn to recognize patterns using tables, graphs, and equations. You'll explore operations on algebraic expressions, and apply mathematical properties to algebraic equations. You'll apply what you learn to real-world concepts and tasks.



LEARNING OBJECTIVES

After completing Algebra 1: Part 1, students will be able to:

- Use rational numbers (fractions, decimals, and integers) to represent real-world contexts
- Solve linear equations
- Solve inequalities
- Write and graph linear equations
- Graph functions

LESSONS	TOPICS
Lesson 1:	Number System
Lesson 2:	Working with Equations
Lesson 3:	Solving Linear Inequalities
Lesson 4:	Functions and Linear Equations
Lesson 5:	Graphs of Functions
Graded Exam:	Final Graded Exam

GRADING

The following point totals correspond to the following grades:

POINTS	GRADE
100-90	A
89-80	B
79-70	C
65-69	D
Below 65	F

James Madison High School allows 2 attempts on exams. If a student is not satisfied with his/her score on the 1st attempt, an exam may be resubmitted. The 2nd attempt is not required as long as the final course average is above 65%. The higher of the 2 attempts will be the score that counts towards the final average.

Exams are timed and once you begin an exam, the timer runs continuously, even if you leave the course. Refer to the exam instructions for the time limit (in most cases 3 hours), but the time limit cannot be spread over multiple days.



GRADE WEIGHT

TOPIC	ACTIVITY	PERCENTAGE
Lesson 1: Number System	Quiz	15%
Lesson 2: Working with Equations	Quiz	15%
Lesson 3: Solving Linear Inequalities	Quiz	15%
Lesson 4: Functions and Linear Equations	Quiz	15%
Lesson 5: Graphs of Functions	Quiz	15%
Graded Exam: Final Graded Exam	Assignment	25%

ACADEMIC AND COURSE POLICIES

Please see the Academic Policies section in the [James Madison High School Catalog](#) for information on Course policies, including the Exam/Assignment Retake Policy, Grading Policy, Academic Honesty Policy, and Student Conduct Policy.



Algebra 1: Part 2

Course number: MA034_20_1

Credits: .5 credit

Prerequisites: None

INSTRUCTIONAL TEAM

Our Academic Advisors are also available to help you when you need it. They are trained to provide answers to your questions about the course or program.

Phone: 1-800-224-7234

Hours: 8:30AM – 8:30PM (Eastern Standard Time), Monday-Friday

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Norcross, GA 30092

Course Materials

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- Look over the syllabus, paying close attention to the course and lesson objectives.
- Read each objective. Pay close attention to main concepts and definitions.
- Complete each assignment as you come to it.
- When you've completed each assignment, look over the lesson review.
- When you're confident you understand the material, complete the lesson exam.

COURSE DESCRIPTION

The Algebra 1: Part 2 course focuses on transferring concrete mathematical knowledge to more abstract algebraic generalizations. In this course, you'll solve problems using equations, graphs, and tables to investigate linear, exponential, and quadratic relationships. You'll apply what you learn to real-world concepts and tasks.



LEARNING OBJECTIVES

After completing Algebra 1: Part 2, students will be able to:

- Solve systems of linear equations
- Solve exponential functions and sequences
- Multiply and factor polynomials
- Graph quadratic functions
- Solve quadratic equations

LESSONS	TOPICS
Lesson 6:	Solving Systems of Linear Equations
Lesson 7:	Exponential Functions and Sequences
Lesson 8:	Polynomial Equations and Factoring
Lesson 9:	Graphing Quadratic Functions
Lesson 10:	Solving Quadratic Equations
Graded Exam:	Final Graded Exam

GRADING

The following point totals correspond to the following grades:

POINTS	GRADE
100-90	A
89-80	B
79-70	C
65-69	D
Below 65	F

James Madison High School allows 2 attempts on exams. If a student is not satisfied with his/her score on the 1st attempt, an exam may be resubmitted. The 2nd attempt is not required as long as the final course average is above 65%. The higher of the 2 attempts will be the score that counts towards the final average.

Exams are timed and once you begin an exam, the timer runs continuously, even if you leave the course. Refer to the exam instructions for the time limit (in most cases 3 hours), but the time limit cannot be spread over multiple days.



GRADE WEIGHT

TOPIC	ACTIVITY	PERCENTAGE
Lesson 6: Title	Quiz	15%
Lesson 7: Title	Quiz	15%
Lesson 8: Title	Quiz	15%
Lesson 9: Title	Quiz	15%
Lesson 10: Title	Quiz	15%
Graded Exam: Final Graded Exam	Assignment	25%

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