Pre-Algebra: Part 1

Course number: MA021_22_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

In the Pre-Algebra: Part 1 course, you'll explain proportional relationships and use number lines and coordinate planes to reason with integers. You'll develop fluency writing, interpreting, and translating between various forms of linear equations and inequalities, and using them to solve problems. You'll learn about the laws of exponents to the creation and solution of simple exponential equations.

LEARNING OBJECTIVES

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

- Calculate and simplify unit rates, build ratios, and solve proportions using cross products
- Use rational numbers (fractions, decimals, and integers) to represent real-world contexts
- Solve one- and two-variable equations to generalize, communicate, and model situations
- Solve linear equations and inequalities, and use properties of exponents

LESSONS	TOPICS
Lesson 1:	Ratios and Proportions
Lesson 2:	Number System
Lesson 3:	Expressions and Equations
Lesson 4:	Introduction to Linear Equations and Exponential Functions

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: Ratios and Proportions	Quiz	25%
Lesson 2: Number System	Quiz	25%
Lesson 3: Expressions and Equations	Quiz	25%
Lesson 4: Introduction to Linear Equations and Exponential Functions	Quiz	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.

Pre-Algebra: Part 2

Course number: MA021_22_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
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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

In the Pre-Algebra: Part 2 course, you'll study angles, congruent and similar triangles, rectilinear figures, polygons, circles and arcs, and the Pythagorean Theorem. You'll study the area and volume of two-dimensional and three-dimensional figures.

LEARNING OBJECTIVES

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

- Perform transformations on figures in the coordinate plane
- Apply properties and formulas for angles and triangles, and explain congruent and similar figures
- Calculate area and volume of geometric figures

LESSONS	TOPICS
Lesson 5:	Coordinate Planes and Transformations
Lesson 6:	Angles, Triangles, Congruence, and Similarity
Lesson 7:	Area and Volume

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: Coordinate Planes and Transformations	Quiz	33.3%
Lesson 2: Angles, Triangles, Congruence, and Similarity	Quiz	33.3%
Lesson 3: Area and Volume	Quiz	33.4%

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