

Algebra I 2011-2012

Mrs. Cyr's Grading Policy

Welcome to Algebra I!

Welcome to high school mathematics. Together we will explore the terminology and concepts utilized in algebra while applying the skills to real-life experiences. Be prepared to incorporate your personal interest in the variety of units we will be studying. The more we can relate new experiences to what we already understand, the more meaningful the learning experience will be.

Grading

Your grades will be determined by student product only. All graded tasks will fall into one of three categories:

Level 1: 40% of your grade

- π Tests
- π Performance Assessments
- π Research

Level 2: 30% of your grade

- π Quizzes
- π Writing Assignments
- π Short Performance Assessments (TBA)
- π Binder

Level 3: 30% of your grade

- π Daily Homework
- π Skill Checks
- π Daily Classroom Activities

Citizenship

Though the following expectations are not a part of your grade in this course, visitors, your peers, and I, expect to observe the following on a daily basis:

- π Come to class prepared
- π Have a positive attitude
- π Always try your best
- π Participate in class discussions and activities with an open mind
- π Think before you speak
- π Respect others and yourself

Required Materials

- π **Textbook.** This must be covered at all times.
- π **Pencils** are abso-tuten-lutely required to do class and homework; good idea to carry two
- π **Pen** (not black) to correct work
- π **Binder** (1-1.5in.) with loose-leaf paper
This binder should be for math only. We will discuss how to organize your binder and I will occasionally collect and grade it. *No zip binders please.*
- π A scientific calculator

Extra Help

Blue Days block 2

Before school, after 7:15

After school, until 4 pm

Whenever possible, please sign up in my planner so I know when to expect you.

π Use appropriate language at all times

π **Just be nice!**

π For each day you miss school, you will have one day to make up the assignment for that class. **IT IS YOUR RESPONSIBILITY TO SEE ME FOR MISSING ASSIGNMENTS ON THE FIRST DAY YOU RETURN.**

π If for some reason you have to retake a test or quiz, you will have one week from the day the test is returned to you, to receive remediation and to do the retake (one per quarter)

π All work must be done in pencil or you *will not receive credit*

π **Parents:** You may reach me at school if you have any questions or concerns. 728-3371 ext. 304 or via e-mail at ncyr@madawaskaschools.org

Please return this portion to me.

I have read and understand the above course outline.

Student's signature

Parent's signature

Comments:

Parent's e-mail address (optional but helpful)

Algebra I Course Description

Semester One

{Problem solving and real-world applications are integrated in all topics.}

- π Introduction to Algebra/Pre-Algebra Review
 - Variables and expressions
 - Operations with real numbers
 - Powers, exponents, and roots
 - Order of operations
- π Solving Equations
 - Solving single- and multi-step equations
 - Solving absolute-value equations
- π Rates, Ratios, Proportions, and Percents
 - Rates, Ratios
 - Proportions
 - Percents
 - Applications of each of the above topics
- π Solving Inequalities
 - Solving and the application of single- and multi-step inequalities involving all operations
 - Absolute-value inequalities
- π Functions
 - Relations and functions
 - Writing/notation
 - Graphing
 - Scatter plots and trend lines

Semester Two

- π Linear Functions
 - Intercepts
 - Rate of change/slope
 - Midpoint and distance formulas
 - Slope-intercept form
 - Point-slope form
 - Standard form
 - Slopes of parallel and perpendicular lines
- π Systems of Equations
 - Solving systems by
 - Graphing
 - Substitution
 - Elimination
 - Solving special systems
- π Data Analysis and Probability
 - Misleading graphs and statistics
 - Sampling
 - Bias
- Experimental probability
- Theoretical probability
- Independent and dependent events
- Combinations and permutations
- π Exponents and Polynomials
 - Integer exponents
 - Scientific notation
 - Properties of exponents
 - Rational exponents
 - Polynomials
 - Operations with polynomials
 - Special products of binomials
- π Factoring Polynomials
 - Factoring and GCF
 - Factoring $(a)x^2 + bx + c$
 - Factoring special products