

# Welcome to Algebra 1

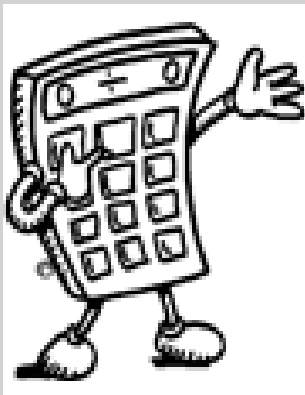
Mr. Canady Rm 100

Mr. Martin Rm 120

Mr. McDermott Rm 104

# Grading Scale

- You will all receive 2 types of grades for the current classes your in:



1. Algebra 1
2. Algebra Support

# Algebra 1

- Grading will be based 100% on tests and quizzes only
  - These tests/ quizzes will be broken up into 20 different categories
  - Each category will be worth 5 % of your algebra 1 grade
  - You will have the ability to make grades up

# Algebra Support

- This will be divided into 2 categories

Assignments- 60%

Other -(teachers discretion) which will include  
behavior, participation, attendance,  
homework, etc.- 40%

# Makeup Grades

- YOU CAN MAKE UP ANY TEST/QUIZ THAT YOU WANT TO RECEIVE HIGHER POINTS

How Do You Do This?

# HERE'S HOW

- You have to make an appointment with your teacher first

## Appointments

TUESDAY- THURSDAY from 3:10pm -4pm

FRIDAY MORNING from 7am- 7:50am

You will sign up for a 30 minute session

# Restrictions

## BE ON TIME

- > If not on time, bye bye no help for that appointment

## TIME SCHEDULE

- You have 2 weeks to make up the grades you wish to make up.

# Algebra 1 Categories

- 1<sup>st</sup> Semester: Basic Skills (beginning diagnostic tests) 2<sup>nd</sup> Sem: STAR prep\*
  - > Diagnostic test 1 (Basic Skills)
    - Addition (2 & 3 digits)
    - Subtraction (2 & 3 digits)
    - Basic Multiplication (1-12)
    - Basic division (Divisors/dividends are 1-12)
  - > Diagnostic test 2 (Basic Skills)
    - Full multiplication (numbers bigger than 12)
    - Long division (single digit / no remainder)
    - Long division (single digit / has remainder)
    - Long division (double digit divisor)
  - > Diagnostic test 3 (Basic Skills)
    - Adding/Subtracting Fractions
    - Multiplying/Dividing Fractions

# Categories Cont'd

- Simplifying expressions (introduces positive/negative numbers)
  - > Combining like terms (L2)
  - > Distributive Property (includes combining like terms) (L3)
  - > Basic powers and roots (2 and 3, perfect roots only): (L2)
  - > Large roots of perfect squares ( $27^2$ ,  $\sqrt{576}$ ) (L3)
  - > Order of operations (PEMDAS with variables) (L2 & L3)
    - Quadratic formula
    - Pythagorean thm (Pythagorean triples)
    - Area & perimeter formulas
    - General formulas
- Simplifying polynomials
  - > Adding/subtracting polynomials (L2)
  - > Multiplying polynomials(L3)
    - Special cases
  - > **Area problems with polynomials**
  - > **Perimeter problems with polynomials**

# Categories Cont'd

- Solving equations
  - › Simple Linear Equations (L2)
  - › Multistep Linear Equations (L3)
  - › Variables on both sides (L3)
  - › **Infinitely many/no solutions (L3)**
- Linear Word Problems
  - ›  $D=rt$  word problems (L2/L3)
  - › Work problems (L3)
- Quadratic formula
  - › Level 1: Whole numbers, single side (simplified) (L2)
  - › Level 2: Fractions, single side (L2)
  - › Level 3: Fractions, both sides (L3)
  - › Level 4: Irrational, both sides (L3)
  - › Level 5: Irrational, possible no solutions, both sides (L3)
- Solving inequalities
  - › Beginning (two/three-step, var on one side)(L2)
  - › Variables on both sides (L3)

# Categories Cont'd

- Slope
  - › Finding slope given graph
  - › Finding slope given two points
  - › Finding slope given parallel/perp lines
  - › Finding a value given slope
- Two-dimensional lines
  - › Writing slope-int form given any form
  - › Writing slope-int form given graph
  - › Writing slope-int form given slope & point
  - › Writing slope-int form given two points
- Graphing Lines
  - › Plotting points
  - › Graphing using intercepts
  - › Graphing using slope & intercept in slope/int form
  - › Graphing using slope & intercept in any form

# Categories Cont'd

- Systems of equations/inequalities
  - › Graphing
  - › Solving equations using substitution
  - › Solving equations using elimination
  - › Graphing systems of inequalities
- Systems of linear equations word problems
  - › Elimination Word Problems (General)
  - › Simple Mixture Problems
  - › Advanced Mixture Problems
  - › **Comparing rates between company A/B**
- Factoring 3 Term Quadratics
  - › 3 terms: Leading coefficient is 1
  - › 3 terms: Leading coefficient is prime
  - › 3 terms: Leading coefficient is not prime
  - › 3 terms: Leading coefficient not prime & common factor

# Categories Cont'd

- Factoring Special Polynomials
  - › Diff of squares, no common factor
  - › Diff of squares, common factor
  - › General two terms: common factor, including variables (includes diff of squares)
  - › Grouping, no common factor
  - › Grouping, common factor
- Solving quadratics/polynomials by factoring and taking square roots
  - › Level 1: 2 & 3 terms: Leading coefficient is 1
  - › Level 2: 2 & 3 terms: Leading coefficient is not 1
  - › Level 3: 2 & 3 terms: leading coefficient not one & common factor (including variables)
  - › Taking Square Roots of Quadratics

# Categories Cont'd

- ◉ Graphing Quadratics
  - > Level 1: Finding vertex & graphing basic
  - > Level 2: Finding intercepts, vertex, line of symmetry, and graphing
  - > Finding roots/zeros/x-intercepts of quadratics
- ◉ Solving Quadratic Word Problems
  - > Beginning gravity problems
  - > Intermediate gravity problems
  - > Area problems
- ◉ Simplifying exponentials
  - > Basic simplifying
  - > Multiplying
  - > Dividing
  - > Parentheses
  - > All

# Categories Cont'd

- Simplifying radicals
  - > Simplifying numeric
  - > Multiplying numeric
  - > Dividing numeric
  - > Exponent notation for radicals
- Rational Expressions
  - > Simplifying rational expressions
  - > Multiplying/dividing rational expressions
  - > Adding/subtracting rational expressions
  - > Solving rational equations