

# Cumulative Testing Design

Questions can come from Mi-Climb, Textbooks, Teacher created or Test Generators.

Test 1

Test 2

Test 3

Test 4

Final Exam

## Algebra I Trimester A

Using Variables	2 Questions per concept
Exponents & Order of Operation	2 Questions per concept
Exploring Real Numbers	2 Questions per concept
Adding Real Numbers	2 Questions per concept
Subtracting Real Numbers	2 Questions per concept
Multiplying & Dividing Real Numbers	2 Questions per concept
Distributive Property	2 Questions per concept
Properties of Real Numbers	2 Questions per concept
Graphing on the Coordinate Plane	
Solving One-step Equations	
Solving Two-step Equations	
Solving Multi-step Equations	
Equations with Variables on Both Sides	
Equations and Problem Solving	
Formulas	
Measures of Central Tendency	
Inequalities & Their Graphs	
Solving Inequalities Using Addition & Subtraction	
Solving Inequalities Using Multiplication & Division	
Solving Multi-step inequalities	
Compound Inequalities	
Absolute Value Equations & Inequalities	
Ratio & Proportion	
Proportions & Similar Figures	
Proportions & Percent Equations	
Percent of Change	
Applying Ratios to Probability	
Probability of Compound Events	
Relating Graphs to Events	
Relations and Functions	
Function Rules, Tables & Graphs	
Writing a Function Rule	
Direct Variation	
Rate of Change & Slope	
Slope-Intercept Form	
Standard Form	
Point-Slope Form and Writing Linear Equations	
Parallel and Perpendicular Lines	
Graphing Absolute Value Equations	

Content Map

**Grading Policy**  
When students receive a higher grade on the next test it becomes their test grade average. Students are never out of the game to pass the class.

# Math Homework Basics

Retention is most critical in the math area. It is very important that teachers not get in the math rut. Homework should be the product of the class work for practice at home. Math teachers don't need to give homework every night. Here are some homework basics:

- Homework is given as an extension of the learning that takes place in the room.
- The amount of homework should be reasonable (a "C" student should not take more than 30 minutes to complete the homework).
- Late work is either not accepted or penalized in grade reduction.
- Guided practice in class should be given to check for understanding before students leave the class.
- Teach for retention by having a problem or two from previous the day's homework.

# Math Homework Strategies

The following 12 strategies should be used randomly and at the teacher's discretion. These strategies break the monotony, hold students more accountable, and should check for understanding.

1. Homework Quiz (similar problems). This is the most frequently used approach. Students are encouraged to ask questions when they go over the homework and write notes on their homework because it can be used on the quiz. Issue 3 pts. for the quiz and 1 pt. for having the homework completed.
  - Teacher corrects only 5 questions and gives a 1 to 5 grade. (Spot Check)
  - Students are called on randomly to go to the chalkboard to explain the problem.
1. Students find a partner or are assigned one, and they jointly check each other's work and submit an answer sheet.
  - 5) Do nothing with it on occasion.
  - 6) Students exchange and correct.
  - 7) Student self-corrects and turns it in.
  - 8) Parts are assigned and presented in class by students.
- Students write a paragraph of what the lesson taught them.
- Teacher collects and corrects the entire homework assignment.
1. Use 4-point check system. (4=100% correct, 3=75% correct, 2=50% correct, etc.)
  - 12) Read off answers and have students stand if they agree.

# Course Start - Up Exercise

The first assignment at the start of every math term should be a copy of the previous final exam from their last class as a take-home quiz. It should be a low point value so it is not stressful to the students. Students should be encouraged to use their books and notes on it and be given opportunity to do corrections on it. No student should get less than a “B” on it.

This strategy gets a student’s math head back in place and gives students a positive attitude about their skills as well as working on long term memory skills.