

### **Text**

Mathematics Applications and Connections Course 3. New York NY:  
Glencoe/McGraw Hill, 2001  
<http://www.glencoe.com/sec/math/mac/mac01/course3/>

### **Expectations/Guidelines**

- 1.) Pay close attention in class. Ask questions if you do not understand something. Actively participate in class and group activities.
- 2.) **Study!** Yes, it is important to study math! Review homework problems, quizzes and tests. Study flashcards. Study vocabulary. Practice problems.
- 3.) Homework is assigned nightly. Show all work on assignments. All homework problems are to be attempted on paper. This is the only way I know that you have tried the problems. Written work helps me see the student's thought processes.
- 4.) After checking work in class, students should correct their problems so they they have accurate work from which to study.
- 5.) Tutoring is available before and after school. If a student is struggling, seek extra help before he or she gets behind.

### **Materials**

The following items are to be brought to school everyday.

- 1.) Expandable folder with pocket devoted to math for keeping all homework, handouts, quizzes, and tests in order.
- 2.) Loose leaf paper or notebook
- 3.) Sharpened pencils
- 4.) Correcting pens/pencils
- 5.) Covered text
- 6.) Assignment book

### **Class Format**

- 1.) We usually begin class with student questions about homework from the previous night.
- 2.) Homework is checked. Students have time to make some corrections while we go over any additional homework questions.
- 3.) New math material is introduced. Examples are done.
- 4.) Students practice the skill on individual whiteboards, at the blackboard or in small group activities.
- 5.) Homework for the night is assigned and students record the homework in their assignment books. If there is time, students begin their assignment.

### **Grading Policy**

- 1.) Students begin the quarter with a homework grade of 90 out of 100 points. To earn additional points for homework, students have the option of completing a weekly extra credit assignment. One point can be earned each week of the 10 week quarter bringing the homework grade up to 100 out of 100 points.
- 2.) If homework is not completed on a given day, a student loses 3 points from the homework grade. If the assignment is turned in the following day, only one point is lost.

3.) Homework assignments are checked in class, collected by me and returned.  
4.) Quizzes are usually announced. However, quizzes covering review of basics will be given at any time unannounced. 5.) Tests are always announced. 6.) The student's grade is calculated by dividing the total points earned by the

total possible points.

### Curriculum

Until the November 22<sup>nd</sup> private high school test date, along with covering the the new curriculum, we review basic skills daily. It slows us down a bit in covering new material, but it is essential to do. Students from past years have told me it helps tremendously to practice problems and to practice the test format, so we spend a good amount of time doing just that.

Exponents, expressions, order of operations, 2-step equations, inequalities Integers Ratio and Proportions, Percents Geometry – angles, triangles, quadrilaterals, symmetry, congruency, similarity Number Patterns – divisibility rules, prime factorization, GCF, LCM, scientific

notation, measurement Fractions Real Numbers: square roots, Pythagorean theorem, special triangles Graphing Functions: 2 variable equations, graphing linear functions, systems of

equations, graphing quadratic functions, slope, graphing inequalities Area and Volume Data Analysis: bar graphs, histograms, circles, line plots, box and whisker, scatter plots, misleading graphs Probability Polynomials Any remainder time will be spent going into more depth on the above topics

in the Algebra text.