Algebra and Mathematical Representation Syllabus for Summer 2007

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MIME Course Goals:

- 1. Strengthen proficiency and understanding of mathematics taught in grades 4 9.
- 2. Introduce and develop an understanding of the structure of mathematics behind the mathematics taught in middle school (grades 4-9).
- 3. Increase appreciation of understanding the mathematics behind what is taught in middle school.
- 4. Increase confidence in ability to understand and do mathematics.

Monday	Tuesday	Wednesday	Thursday
6/11	6/12	6/13	6/14
Magic Squares;	Magic Squares &	Operations with	Guess the Number:
Pretest	Algebraic Properties	Numbers: Why do	Informal Use of
		the procedures work?	Representation
6/18	6/19	6/20	6/21
Guess the Operation:	Variables and	Variables and	Identifying and
More Informal	Formulas: Formal	Formulas, continued	Extending Patterns
Representation	Representation		_
6/25	6/26	6/27	6/28
Patterns, continued:	Patterns, continued:	Patterns, continued:	Verifying Formulas,
Recursive Formulas	Explicit Formulas	Verifying Formulas	continued;
			Functions: Informal
			Discussion
**6/29 FRIDAY	**7/2 MONDAY	**7/3 TUESDAY	July 4 th Holiday
Functions: Formal	Functions: Words,	Functions: More	5 5
> Definitions and	Tables, and Graphs,	Graphs;	(7/4 - 7/8)
Representations	OH MY	Interviews	
7/9	7/10	7/11	7/12
Functions:	Functions: Symbolic	Review	Test
Interpreting Graphs	Representations		

Topics and dates subject to change

Grades will be calculated with the following data:

1. <u>Homework - 60%</u>

A minimum of 11 homework assignments will be given. Each will be scored on the basis of 10 points. We will use the highest 10 scores.

2. <u>Test - 25%</u>

This assessment will include some short answer, extended response, and problem solving. We will distribute more details approximately a week prior to the test.

3. <u>Attendance - 15%</u>

We require attendance and participation in our activities for each class. Your cooperation and participation are greatly appreciated!