

# Martin Luther King Jr., Middle School

## 8<sup>th</sup> Grade Math Syllabus

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**Teacher:**

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Mr. Howard LC 1 – Math

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Class Website:

<http://edmodo.com/mrhowardmathclass>

**School Phone:**

(404) 802-5400

**School Address:**

545 Hill St.

Atlanta, GA 30312

### Course Description

By the end of grade eight, students will understand and use in probability, geometry, number sense, and algebra. The standards are fully explained on the Common Core Georgia Standards website. <http://www.georgiastandards.org/math.aspx>

### Common Core Georgia Performance Standards

In Grade 8, instructional time should focus on three critical areas: (1) formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.

Content standards for Grade 8 are arranged within the following domains and clusters:

**The Number System 1<sup>st</sup> Semester**

- Know that there are numbers that are not rational, and approximate them by rational numbers.

**Expressions and Equations 1<sup>st</sup> and 2<sup>nd</sup> Semester**

- Work with radicals and integer exponents.
- Understand the connections between proportional relationships, lines, and linear equations.
- Analyze and solve linear equations and pairs of simultaneous linear equations.

**Functions 1<sup>st</sup> and 2<sup>nd</sup> Semester**

- Define, evaluate, and compare functions.
- Use functions to model relationships between quantities.

**Geometry 1<sup>st</sup> Semester**

- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand and apply the Pythagorean Theorem.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.

**Statistics and Probability 2<sup>nd</sup> Semester**

- Investigate patterns of association in bivariate data.

### Textbook/Publisher/Cost:

Mathematics Course 3/Holt, Rinehart, and Winston--\$60.00

We will be using a classroom set of text books. However, every student will receive a workbook which they are responsible for bringing to class every day, along with their student agenda, unless stated otherwise.

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**Requirements: Materials and Supplies**

*Materials/Supplies:* Students are required to bring the following items to class everyday.

- Pencils (preferred)
- Pencil sharpener (with covering)
- 3 ring binder/Folder
- Notebook paper
- Section dividers (3-5 pack)
- Composition notebook (optional)
- Math Workbook
- School-issued student agenda

**Rules & Classroom Management Policies**

Students are expected to come to class everyday prepared and ready to learn with a positive attitude. Students are required to act in a behavior conducive to learning, according to Atlanta Public Schools code of conduct, and those rules established by King Middle School. If students are not able to follow the rules, they will be disciplined according to the steps and procedures detailed in the Student Handbook.

**Classroom Grading & Evaluation Policy**

Students will receive a grade based on the following categories:

Tests	30%		
Class work	30%	<b>A</b>	<b>100 – 90</b>
Projects	10%	<b>B</b>	<b>89 – 80</b>
Quizzes	20%	<b>C</b>	<b>79 – 70</b>
Homework	10%	<b>F</b>	<b>69 and below</b>
Total	100%		

**Class work:** Participation in class activities and class assignments are important to informally assess student learning and understanding. All students are expected to participate in class. Students will receive a participation grade on a daily basis. Participating in note-taking is a part of the class experience. Students are expected to take notes in their composition notebooks or 3-ring binder. The notes can be used on the standards-based quizzes. Students are responsible for any work missed during the instructional hour.

**Projects:** Students will be given projects periodically throughout the semester. Some of the projects include Common Core Georgia Performance Standards tasks. Students will receive information on these projects as the date arises. Students will be given ample time to complete projects, in some cases extra class time. Students will be graded on a rubric, which will communicate the expectations of the project and assess specific criteria of the assignment.

**Homework:** Students will receive homework Monday-Thursday to enforce key math concepts. Students are expected to complete and turn in all homework in a timely manner. Homework is usually due the next day, unless otherwise specified by the teacher. In most cases, homework will be graded on effort and completion.

**Quizzes:** A quiz will be given at the conclusion of every week in preparation for the Unit test. Students are allowed to replace previous quiz grades satisfactory or unsatisfactory with the current week's quiz so long as there is a parent signature on the previous quiz.

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**Tests:** A test will be given at the conclusion of every Unit. Students will have an in class review the day before the test, which will include sample test questions. Tests should be completed independently. Using notes, talking, or cheating during a test is NOT allowed. If a student is found doing such things, he/she will receive a 0% on the test and can not make up the test.

*NOTE: All Assessments (test/quizzes) will stay inside of the classroom in the students' folder. If a student is absent, he or she is able to make up missed quizzes or test. However, they must stay after school; unless time is given in class (see **After School Tutorial** below).*

### **Late/Make-Up Work**

Students are responsible for obtaining any missed work when they are absent. Completing early finisher assignments will replace missing homework. Students are allowed to complete the assignments at home and return to early finisher bin. It is the students' responsibility to complete it and turn it in within a timely manner. Notes and other missing assignments must be obtained from another student or can be obtained in the daily notebook found in the classroom.

### **Extra Credit Policy & Procedures**

Extra credit assignments are given periodically, and are for all students. Students have a *choice* whether they would like to participate or not. Extra credit will be offered at the teacher's discretion. Students should not rely on extra credit as a means for getting a high grade in the class.

### **After-School Tutorial**

Math tutorial is available on Tuesday from 4:05-5:00 pm if a student needs homework help or remediation. Transportation will be provided home for students who in the afterschool All-Stars Program.

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**Signature Acknowledgements**

**I acknowledge that I have read and received a copy of 8th Grade Math Syllabus. I will govern myself according to these rules, procedures, and expectations.**

\_\_\_\_\_  
Student Name

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent Name

\_\_\_\_\_  
Parent/Guardian Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Cell Phone Number

\_\_\_\_\_  
Home Number

\_\_\_\_\_  
Work Number

\_\_\_\_\_  
Email Address

**If you have any questions or concerns regarding the course syllabus, please contact Mr. Howard, or set up an appointment for a conference.**