

**Atlantic Middle School  
86 Hollis Avenue  
N. Quincy, MA 02171  
617-984-8727**

## **SYLLABUS**

**TEACHER:** Mr. Timothy Ryan

**COURSE/GRADE LEVEL:** Mathematics - Grade 6

### **INSTRUCTIONAL MATERIALS:**

Big Ideas Math: A Common Core Curriculum (Houghton Mifflin); On Core Mathematics (Houghton Mifflin)

### **MAJOR TOPICS:**

In Grade 6, instructional time will focus on four critical areas: (1) connecting ratio and rate to whole number multiplication and division, and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking. In Grade 6, students also build on their work with area in elementary school by reasoning about relationships among shapes to determine area, surface area, and volume.

#### Ratios and Proportional Relationships

- Understand ratio concepts and use ratio reasoning to solve problems.

#### The Number System

- Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Apply and extend previous understandings of numbers to the system of rational numbers.

#### Expressions and Equations

- Apply and extend previous understandings of arithmetic to algebraic expressions.
- Reason about and solve one-variable equations and inequalities.
- Represent and analyze quantitative relationships between dependent and independent variables.

#### Statistics and Probability

- Develop an understanding of statistical variability.
- Summarize and describe distributions

#### Geometry

- Solve real-world and mathematical problems involving area, surface area, and volume.

### **ASSESSMENT TOOLS: \***

Homework

Quizzes

Tests

Binder Checks

Class Work

Class Participation

Projects

Open Response Questions

Warm-Up Work

Teacher Observations

**\*See Individual Student Education Plans or 504 Plans for modification where applicable.**

## **HOMEWORK EXPECTATIONS:**

Math homework is generally assigned every evening (including Fridays). Assignments are expected to be passed in on time and finished completely. Homework is evaluated based on completion and effort, not on accuracy. Incomplete or missing homework assignments may need to be finished after school on the day that the assignment is due, in order to receive partial-credit. After that time, no credit will be given for the assignment.

## **GRADING POLICY:**

Tests and projects:	50%
Quizzes:	30%
Homework:	15%
Participation:	5%

\* Please note that poor attendance may negatively affect all of the above grading categories.

## **MAKEUP PROCEDURE:**

If a student is absent from school, it is his/her responsibility to see Mr. Ryan upon return to school to find out about any missed class notes and/or homework assignments. Missed homework assignments are expected to be passed in the day after the student returns to school. Missed tests or quizzes are expected to be made up on the day after the student returns to school (either before school or after school). Individual arrangements will be made for students who are absent for an extended period of time.

## **TEST RE-TAKE POLICY:**

If a student receives a grade of less than 70% on a test, he or she may re-take the test after school. If the re-take grade is greater than the original grade, the re-take grade will be used (with a maximum possible grade of 70%). If the re-take grade is less than the original grade, the original grade will be used.

## **MATERIALS:**

The following items should be brought to class every day:

Math Workbook

Math Binder

The Previous Night's Math Homework

Agenda Book

A pencil case that contains the following items: pencils, erasers, white board markers, and a correcting pen.

**Adjustments may be made to this syllabus to meet students' needs. If adjustments are made to this syllabus during the school year, parents/guardians will be notified and a new syllabus will be distributed.**