

SCHOOL: Atlantic Middle School
ADDRESS: 86 Hollis Avenue
PHONE #: 617-984-8727

SYLLABUS

TEACHER: Mr. Ryan

COURSE/GRADE LEVEL: Mathematics - Grade 6

INSTRUCTIONAL MATERIALS:

Houghton Mifflin Math – Grade 6 (Houghton Mifflin)

MAJOR TOPICS:

Mathematics is a lifelong process in which students achieve mathematical competence through problem solving, communication, reasoning, and making connections.

Math includes the study of:

Number Sense:

- Place Value and Expanded Notation
- Order of Operations
- Primes and Composites
- Factors and Multiples
- Exponents
- Basic Understanding of Decimals, Fractions, and Percents
- Computation with Decimals, Fractions, and Percents
- Estimation and Rounding
- Introduction to Integers

Patterns, Relationships, Functions, and Problem Solving Strategies:

- Using Systematic Problem Solving Plans
- Systems of Linear Measurement
- Evaluation of Expressions and Equations
- Graphing Coordinate Points
- Interpreting Graphs and Tables
- Using Manipulative to Model Equations

Geometry and Measurement

- Polygons
- Area, Perimeter, Volume
- Symmetry - Congruence
- Circumference
- Coordinate planes
- Tessellating Shapes and Designs
- Angles - Measuring and Constructing

Probability and Statistics

- Mean, Median, Mode, Range
- Probability
- Ratio and Proportion

Throughout the year, students explain their understanding and analysis of mathematical ideas, concepts, and data through both oral and written communication. The following learning materials are used in the classroom to promote the application of mathematical concepts:

- Hands-On-Equations, Connected Mathematics, Exemplars, and Base-Ten and other manipulatives

ASSESSMENT TOOLS* (The following tools may be used for assessment.):

Portfolios	Rubrics
Teacher observations	MCAS Testing
Self-grading and evaluations	Projects
Notebooks	Open ended questions
Word problems	Open note tests and quizzes
Take home tests/writing assignments	Journal/Diaries
Objective Tests/Quizzes	Exams
Attendance	Class Participation
Homework	

**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 must be finished after school (in room 203) on the day that the assignment was 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:	20%

* Please note that poor attendance will 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 on 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.

GENERAL INFORMATION / MATERIALS:

The following items should be brought to class every day:

Math binder

Math folder

Math textbook

Agenda book

A tool bag that contains the following items: pencils, erasers, highlighters, pencil sharpener and ruler.

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 revised syllabus will be issued.