

SCHOOL: Point Webster Middle School
ADDRESS: 60 Lancaster St.
PHONE #: 617-984-6600

SYLLABUS

TEACHER Mr. Brian Angell
COURSE/GRADE LEVEL Pre-Algebra, Grade 7, Honors
INSTRUCTIONAL MATERIALS
McDougal Littell Pre-Algebra

MAJOR TOPICS*

Variables, Expressions, and Integers
 Expressions and Variables
 Powers and Exponents
 Order of Operations
 Comparing and Ordering Integers
 Adding, Subtracting, Multiplying, and Dividing Integers
 The Coordinate Plane

Solving Equations
 Properties and Operations
 The Distributive Property
 Simplifying Variable Expressions
 Variables and Equations, Solving Equations
 Decimal Operations and Equations with Decimals

Multi-Step Equations and Inequalities
 Solving Two-Step Equations
 Solving Multi-Step Equations and Inequalities

Factors, Fractions, and Exponents
 Factors and Prime Factorization
 Greatest Common Factor and Least Common Multiple
 Rules of Exponents
 Scientific Notation

Rational Numbers and Equations
 Rational Numbers
 Adding and Subtracting Like and Unlike Fractions
 Multiplying and Dividing Fractions
 Using Multiplicative Inverses to Solve Equations
 Equations and Inequalities with Rational Numbers

Proportion, Percent and Probability
 Rates and Ratios
 Writing and Solving Proportions
 Similar and Congruent Figures
 Similarity and Measurement, Scale Drawings
 Probability and Odds
 The Counting Principle

Percents
 Percents and Fractions, Percents and Proportions, Percents and Decimals

The Percent Equation
Percent of Change, Percent Application
Simple and Compound Interest

Linear Functions

Relations and Functions
Linear Equations in Two Variables
Using Intercepts
The Slope of a Line, Slope-Intercept Form

Measurement, Area, and Volume

Triangles, Polygons, and Quadrilaterals
Areas of Parallelograms and Trapezoids
Circumference and Area of a Circle
Surface Areas and Volume of Prisms, Cylinders

Data Analysis and Probability

Stem-and-Leaf Plots, Histograms, and Box-and-Whisker Plots
Using Data Displays, Collecting and Interpreting Data
Permutations and Combinations
Probabilities of disjoint and Overlapping Events
Independent and Dependent Events

Angle Relationships and Transformations

Angle Relationships, Angles and Parallel Lines, Angles and Polygons
Translations, Reflections, Rotations, and Dilations

Real Numbers and Right Triangles

Square Roots, The Pythagorean Theorem, Real Numbers

Syllabus for 7th Grade Math

Teacher: Mr. Brian Angell

GRADING POLICY

Tests – 40%

Quizzes – 10%

Homework – 20%

Participation -10%

Class Work and Notes – 10%

Preparedness – 10%

Tests

Chapter Tests or Assessments will be given every 2-3 weeks. Students will be given a day of review before each test or assessment.

Quizzes

There will be both announced and unannounced quizzes throughout the year. The quizzes are used to ensure that students are retaining information between tests.

Homework

Homework will be assigned most nights, Monday through Thursday. Every day, the teacher will initial every student's agenda book confirming that the homework has been recorded. Homework is usually corrected for completeness. However, when the teacher deems necessary, it will also be graded for correctness. If students are having difficulty with homework, they should tell the teacher so that help can be arranged. Late homework is accepted with a 20% penalty.

Participation

Every student is expected to participate in class. Students receive credit for participating in class by raising their hands to answer questions, ask questions, or add to the math conversation in class.

Class Work and Notes

Students are expected to keep class notes. Most of these notes will be taken in the Notetaking Guide. Students will also be expected to complete and hand in some class work throughout the year.

Preparedness

Each student is expected to always have a pencil, a math folder, the two math workbooks, and the agenda book in class. Any missed item will result in 20% reduction in their participation grade.

Makeup Work

If a student is absent, the student needs to see the on the day of return to school to receive any make-up work. Arrangements will be made on an individual basis as to when missed tests can be taken. Make-up work is to be done in a reasonable amount of time based on the length of absence.

Math Text

We will be keeping the math textbook in the classroom. If students wish to bring home a text, he or she may sign one out. That student will be responsible for bringing the text back in at the end of the year. For your convenience, the entire text is online at www.classzone.com.

***Adjustments may be made in this syllabus to meet student needs.**