

SCHOOL: Point Webster Middle School

ADDRESS: 60 Lancaster St.

PHONE #: 617-984-6600

SYLLABUS

TEACHER Mr. Brian Angell

COURSE/GRADE LEVEL Grade 7 Math

INSTRUCTIONAL MATERIALS

McDougal Littell Math, Course 2

MAJOR TOPICS*

Number Sense, Patterns, and Algebraic Thinking

- Describing Patterns
- Variables and Expressions
- Powers and Exponents
- Order of Operations
- Equations and Mental Math
- Perimeter and Area

Decimal Operations

- Comparing, Ordering, and Rounding Decimals
- Adding, Subtracting, Multiplying, and Dividing Decimals
- Scientific Notation
- Measuring and Converting Metric Units

Data and Statistics

- Mean, Median, Mode, Range
- Bar Graphs and Line Graphs
- Stem-and-Leaf Plots and Box-and-Whisker Plots
- Histograms

Number Patterns and Fractions

- Prime Factorization
- Greatest Common Factor, Equivalent Fractions, and Least Common Multiple
- Comparing and Ordering Fractions, Mixed Numbers, and Improper Fractions
- Converting Fractions to Decimals and Decimals to Fractions

Fraction Operations

- Adding and Subtracting Fractions and Mixed Numbers
- Multiplying and Dividing Fractions and Mixed Numbers
- Measuring and Converting Customary Units

Integers

- Comparing and Ordering Integers
- Adding, Subtracting, Multiplying, and Dividing Integers
- Rational Numbers, The Distributive Property, and The Coordinate Plane

Equations, Inequalities, and Functions

- Writing Expressions and Equations
- Simplifying Expressions
- Solving Addition, Subtraction, Multiplication, and Division Equations
- Solving Two-Step Equations and Inequalities
- Functions and Equations

Ratio and Proportion

Ratio and Rates

Slope

Writing and Solving Proportions, Scale Drawings and Models

Percents

Percents and Fractions, Proportions, and Decimals

Circle Graphs

Percent Increase and Percent Decrease

Discounts, Markups, Sales Tax, and Tips, Simple Interest

Geometric Figures

Angles, Triangles, Polygons

Similar and Congruent Polygons

Transformations and Symmetry

Measurement and Area

Area of Parallelograms, Triangles, Trapezoids

Circumference and Area of a Circle

Surface Area and Volume

Classify and Sketch Solids

Surface Area of and Volume of Rectangular Prisms, Cylinders, and Pyramids

Probability

Investigating and Finding Probabilities

Tree Diagrams

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.**