

Berlin Brothersvalley School District
Math
6th Grade
Year at a Glance

Course Description:

Math 6th Grade Summary:

In Grade 6, instructional time should focus on five critical areas:

- (1) Connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate (and equivalencies) to solve problems.
- (2) Completing an understanding of all operations of fractions and decimals and extending the notion of number to the system of rational numbers, which include negative numbers.
- (3) Writing, interpreting, using, and graphing expressions, equations, and inequalities (with and without variables)
- (4) Solve real-world problems involving area, surface area, and volume.
- (5) Developing understanding of statistical thinking, using histograms and box plots, and analyzing data

Please see below for a concise outline of the course

Units of Study	Concepts	Time	Standards
Data Analysis and Statistics	<ul style="list-style-type: none"> Statistical Questions Histograms Box Plots Mean Absolute Deviation 	4 weeks	CC.2.4.6.B.1
Numbers and Operations	<ul style="list-style-type: none"> Decimal Operations Long Division Fraction Operations Inequalities Absolute Value GCF and LCM 4 Quadrants 	13 weeks	CC.2.4.6.B.1 CC.2.1.6.E.3 CC.2.1.6.E.4 CC.2.1.6.E.2
Algebraic Concepts	<ul style="list-style-type: none"> Algebraic Expressions (Order of Operations) Solution Sets Combining Like Terms Inequalities with Variables 	9 weeks	CC.2.2.6.B.1 CC.2.2.6.B.2 CC.2.2.6.B.3
Ratios and Proportional Relationships	<ul style="list-style-type: none"> Percentages Ratios 	4 weeks	CC.2.1.6.E.1 CC.2.1.6.D.1
Geometry	<ul style="list-style-type: none"> Distance Between Two Points Area of 2D figures Surface Area of 3D figures Volume of 3D figures 	6 weeks	CC.2.3.6.A.1