

**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

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