

Berlin Brothersvalley School District
Berlin Brothersvalley Middle School
Year at a Glance Curriculum

Department Math
 Subject Math Grade 8

Course Description:

Topics covered in this course include: analyzing linear relationships, graphing linear equations and inequalities, simplifying rational expressions, solving systems of two linear equations and simplifying expressions containing exponents and square root radicals. It will also prepare students to take the PSSA.

Please see below for a concise outline of the course.

Units of Study	Concepts	Time	Standards
Numbers and Operations	Students will know... <ul style="list-style-type: none"> ● Rational and irrational numbers ● Exponent rules ● Equations 	9 weeks	CC.2.1.8.E.1 CC.2.1.8.E.4 CC.2.2.8.B.3
Linear Equations and Inequalities	Students will know... <ul style="list-style-type: none"> ● Slope and intercepts ● Graphing lines ● Solving systems ● Functions 	9 weeks	CC.2.2.8.B.3 CC.2.2.8.B.2 CC.2.2.8.C.1
Geometry	Students will know... <ul style="list-style-type: none"> ● Angle relationships ● Pythagorean Theorem ● Transformations ● Area and perimeter ● Volume and Surface Area 	15 weeks	CC.2.3.8.A.3 CC.2.3.8.A.1
Data	Students will know... <ul style="list-style-type: none"> ● Probability and Statistics ● Deviations ● Types of Graphs 	3 weeks	CC.2.4.8.B.1 CC.2.4.8.B.2

*Please visit pdesas.org for a complete list of standards taught in this course and for more information regarding PA State Standards for this course.