School District of Loyal
Math
Grade: 7
Student Learning Targets

Class: Math 7

Students who demonstrate understanding can:		
WI State Standard	**Standard Description:**	**Student Learning Targets:**
M.7.RP.A.3	Use proportional relationships to solve multi-step ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.	**Students will be able to:** ● Convert percents and decimals ● Analyze, apply, and solve percents and proportions in real-world situations
M.7.NS.A.3	Solve real-world and mathematical problems involving the four operations with rational numbers.	**Students will be able to:** ● Perform arithmetic with fractions and decimals ● Add and Subtract rational numbers and on a number line ● Describe opposite numbers as zero
M.7.EE.A.1	Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	**Students will be able to:** ● Apply the Distributive Property and its inverse to simplify rational expressions ● Define what a term is and when 2 terms are like terms ● Understand the difference between and expression and an equation ● Understand coefficients and what they mean
M.7.EE.B.3 M.7.EE.B.4	Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.	**Students will be able to:** ● Model real-world problems using rational numbers, percents, and proportions ● Create an equation and an inequality given real-world context ● Solve equations and inequalities

M.7.G.B.6	Solve real-world and mathematical problems involving area, volume, and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	**Students will be able to:** ● Utilize surface area and volume to analyze and solve real-world problems with surfaces and solids
M.7.RP.A.1	Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units.	**Students will be able to:** ● Compute Unit Rates using: ○ Ratios of Fractions including ratios of lengths ○ Area ○ Other quantities with like units
M.7.G.B.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.	**Students will be able to:** ● Use known formulas to solve: ○ Area Problems ○ Circumference Problems ● Understand the relationship between Area and Circumference