Community Consolidated School District 46

565 Frederick Road, Grayslake, IL 60030

23-24 Sixth Grade Math Priority Standards

Trimester 1	Trimester 2	Trimester 3
The Number System- Factors & Multiples	**The Number System/Geometry- Decimals & 3D Figures**	**Ratios & Proportions- Percents**
Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1-100 with a common factor.	Measure volume by counting unit cubes.	Find the percent of a quantity as a rate per 100. Solve problems in finding the whole given the percent
	Understand concepts of volume and relate volume to multiplication and addition.	**Expressions**
The Number System- Fractions	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism.	Write and evaluate numerical expressions involving whole-number exponents.
Interpret and compute quotients of fractions, and solve word problem involving division of fractions by fractions.	Apply the formulas V = lwh and V = bh to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	Write, read, and evaluate expressions in which letters stand for numbers.
The Number System/Geometry- Decimals & 3D Figures	Represent three-dimensional figures using nets made up of rectangles and triangles. Use the nets to find surface areas of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	
Fluently divide multi-digit numbers using the standard algorithm.	**The Number System- Rational Numbers**	Apply the properties of operations to generate equivalent expressions.
Fluently add, subtract, multiply and divide multi-digit decimals using the standard algorithm for each operation.	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values, and use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	Identify when two expressions are equivalent.
Geometry- Area	Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
Understand attributes of two-dimensional figures belong to all figures in that subcategory.	Understand ordering and absolute value of rational numbers.	**Equations & Inequalities**
Classify two-dimensional figures in a hierarchy based on properties.	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	Write an inequality of the form x > c or x < c to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form x> c or x < c have infinitely many solutions; represent solutions of such inequalities on number line diagrams.
Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	**Ratios & Proportions- Ratios & Rates**	Solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q for cases in which p, q and x are all nonnegative rational numbers.
	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.	Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use and explain substitution in order to determine whether a given number in a specified set makes an equation or inequality true.

Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠0, and use rate language in the context of a ratio relationship.	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.
Use ratio and rate reasoning to solve real-world and mathematical problems.	**Statistics & Probability**
	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.
	Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.
	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.
	Solve real-world problems involving information presented in provided or student-created line plots.
	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
	Summarize numerical data sets in relation to their context.