2022/2023 Scope and Sequence

Grade: 6 Month: Sept/Oct
Content Area: Math
Sub Content: Numerical Expressions and Factors

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes	Standard
- Identify prime and composite numbers. - Define common mathematical vocabulary - Write and evaluate with whole-number of exponents. - Find the prime factorization of a number - Find the Greatest common factor of two whole numbers - Find the Least Common Multiple	- Card game – multiplication war - Around the world game - White board math - Varying mat exercises	- Deck of cards - Individual white boards, pens and eraser - Record and practice journal - Textbook - Grided math paper - White board, marker, eraser	- Daily homework to check for understanding ½ unit assessments - Chapter assessment	*Chapter 1 in Common Core 2004 textbook*	6.MP.1 Make sense of problems and persevere in solving them.
					6.MP.2 Reason abstractly and quantitatively.
					6.MP.3 Construct viable arguments and critique the reasoning of others
					6.MP.4 Model with mathematics.
					6.MP.5 Use appropriate tools strategically.

of two whole numbers ● Find the least common denominator in two unlike fractions. ● Properly evaluate an equation using order of operations ● Identify the importance of a common order of operation ● Divide fluently ● Multiply fluently					6.MP.6 Attend to precision
					6.MP.7 Look for and make use of structure.
					6.MP.8 Look for and express regularity in repeated reasoning. 6.NS.2 Fluently divide multi–digit numbers using the standard algorithm.

					6.NS.4 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

2022/2023 Scope and Sequence

Grade: 6 Month: Nov/Dec/Jan
Content Area: Math
Sub Content: Algebraic Expressions and Fractions and Decimals

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes	Standard
- Multiply fractions - Divide fractions - Divide mixed numbers - Add and subtract decimals - Multiplying decimals - Dividing decimals - Write and evaluate an algebraic expression - Understand why	- Card game – multiplication war - Around the world game - White board math - Varying math exercises	- Deck of cards - Individual white boards, pens and eraser - Record and practice journal - Textbook - Grided math paper - White board, marker, eraser	- Daily homework to check for understanding ½ unit assessments - Chapter assessment	*Chapters 2 and 3 in Common Core 2014 textbook.*	6.MP.1 Make sense of problems and persevere in solving them.
					6.MP.2 Reason abstractly and quantitatively.
					6.MP.3 Construct viable arguments and critique the reasoning of others
					6.MP.4 Model with mathematics.

order of operations matter • Use properties to write equivalent expressions. • Use mental math to multiply 2 numbers					6.MP.5 Use appropriate tools strategically.
					6.MP.6 Attend to precision
					6.MP.7 Look for and make use of structure.
					6.EE.3 Apply the properties of operations to generate equivalent expressions.
					6.EE.4 Identify when two expressions are equivalent
					6.EE.5 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 substitution to determine whether a given number in a specified set makes an equation or inequality true. 6.EE.7 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

					6.EE.9 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.

2022/2023 Scope and Sequence

Grade: 6   Month: Feb/March

Content Area: Math

Sub Content: Algebraic Expressions and Fractions and Decimals

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes	Standard
• Find areas of triangles, special quadrilaterals and polygons. • Find the distance between points with the same x-or y- coordinate. • Draw polygons in the coordinate plane given vertices and find lengths of	• Card game – multiplication war • Around the world game • White board math • Varying math exercises • Create unique shapes using a 4 quadrant plane. • Coordinate Plane BINGO	• Deck of cards • Individual white boards, pens and eraser • Record and practice journal • Textbook • Grided math paper • White board, marker, eraser	• Daily homework to check for understandi ng • ½ unit assessments • Chapter assessment		6.MP.1 Make sense of problems and persevere in solving them. 6.MP.2 Reason abstractly and quantitatively. 6.MP.3 Construct viable arguments and critique the reasoning of others

sides. • Understand ratios, rates and unit rates. • Compare ratios using tables. • Find percent as a rate per 100 • Solve problems involving finding the whole, given a part and the percent. • Use ratio reasoning to convert measurement units.					6.MP.4 Model with mathematics.
					6.MP.5 Use appropriate tools strategically.
					6.MP.6 Attend to precision
					6.MP.7 Look for and make use of structure.
					6.G.2 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. Apply the formulas $V = l\,w\,h$ and $V = b\,h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real–world and mathematical problems.
					6.G.3 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.

2022/2023 Scope and Sequence

Grade: 6   Month: April/May/June
Content Area: Math
Sub Content: Algebraic Expressions and Fractions and Decimals

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes	Standard
- Surface Area of a rectangular and triangular prism - Volume of a rectangular prism - Writing Equations in One Variable . - Statistical Measures - Histograms - Box and Whisker Plot - Stem-and-Leaf-Plot - Shapes of	- Around the world game - White board math - Varying math exercises - Create unique shapes using a 4 quadrant plane. - IXL Group Jam	- Deck of cards - Individual white boards, pens and eraser - Record and practice journal - Textbook - Grided math paper - White board, marker, eraser - Chromebook	- Daily homework to check for understanding ½ unit assessments - Chapter assessment		

Distribution
● Statistical Measures
  ○ Measure of Center
  ○ Measure of Distribution
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