

**GREENVILLE AREA SCHOOL DISTRICT
MATH CURRICULUM - GRADE 5**

			Revision Date	2023
Subject	Math		Grade Level	5
Unit	Multiply and Divide Whole Numbers		Weeks of Instruction	6 weeks
Standards				
Focus		Important	Eligible Content	
CC.2.1.5.B.1 Apply place value concepts to show an understanding of operations and rounding as they pertain to whole numbers .		CC.2.2.5.A.1 Interpret and evaluate numerical expressions using order of operations.	M05.A-T.1.1.1 M05.A-T.1.1.2 M05.A-T.1.1.3 M05.A-T.1.1.4 M05.A-T.1.1.5	M05.A-T.2.1.1 M05.A-T.2.1.2 M05.A-T.2.1.3
Big Ideas/Understandings		Misconceptions		Vocab
Mathematical relationships can be represented as expressions in mathematical situations. Numerical calculations can be estimated and/or analyzed to use appropriate strategies. Mathematical relationships can be represented, compared, and communicated.		Not lining up quotients with multi-digit division. If there is a zero in the quotient, students often try to skip that step.		quotient divisor dividend remainder place value factor product round expanded form compatible number
Knowledge/Concepts Students will know...		Skills/Competencies Students will be able to...		

Understand the place value system.	Recognize that in a multi-digit number, a number can be either 10 times as much as the place to the right and 1/10 of the place to the left.	
Use a set procedure to solve multiplication and division problems.	Students will use and explain zeros of products when multiplying by powers of 10.	
	Students will fluently multiply and divide multi-digit whole numbers using a set algorithm to represent and solve computation and real world problems.	

		Revision Date	2023
Subject	Math	Grade Level	5
Unit	Add, Subtract, Multiply, and Divide Decimals	Weeks of Instruction	9
Standards			
Focus	Important	Eligible Content	
CC.2.1.5.B.1 Apply place value concepts to show an understanding of operations and rounding as they pertain to decimals. CC.2.1.5.B.2 Extend an understanding of operations with decimals to perform operations.		M05.A-T.1.1.1 M05.A-T.1.1.2 M05.A-T.1.1.3 M05.A-T.1.1.4 M05.A-T.1.1.5	M05.A-T.2.1.1 M05.A-T.2.1.2 M05.A-T.2.1.3
Big Ideas/Understandings		Misconceptions	Vocab
Mathematical relationships can be represented, compared, and communicated. Numerical calculations can be estimated and/or analyzed to use appropriate strategies. Mathematical relationships can be represented as expressions and equations in mathematical situations.		Not lining up decimals when adding and subtracting. Lining up decimals when multiplying.	benchmark tenths hundredths thousandths expanded form sum difference product quotient divisor dividend
Knowledge/Concepts Students will know...		Skills/Competencies Students will be able to...	

		Revision Date	2023
Demonstrate an understanding of rounding. Read, write, and compare decimals. Use whole numbers and decimals to add, subtract, multiply, and divide correctly.	Read and write decimals to the hundredths. Compare decimals to the hundredths. Round decimals. Add, subtract, multiply, and divide decimals to the hundredths using strategies and explain reasoning.		

		Revision Date	2022
Subject	Math	Grade Level	5
Unit	Add, Subtract, Multiply, and Divide Fractions	Weeks of Instruction	8
Focus	Important	Eligible Content	
CC.2.1.5.C.1 Use the understanding of equivalency to add and subtract fractions. CC.2.1.5.C.2 Apply and extend previous understandings of multiplication and division to multiply and divide fractions.		M05.A-F.1.1.1 M05.A-F.2.1.1 M05.A-F.2.1.2 M05.A-F.2.1.3 M05.A-F.2.1.4 M05.B-O.2.1.1 M05.B-O.2.1.2	
Big Ideas/Understandings		Misconceptions	Vocab
Mathematical relationships can be represented, compared, and communicated. Numerical calculations can be estimated and/or analyzed to use appropriate strategies. Mathematical relationships can be represented as expressions and equations in mathematical situations.		Students tend to add the common denominators. Students add denominators and forget to get a common denominator. Students try to find common denominators instead of multiplying them.	Numerator Denominator Common denominator multiples equivalent fractions mixed numbers simplest form sum difference

Knowledge/Concepts Students will know...	Skills/Competencies Students will be able to...	
Use and understand a set procedure by using equivalent fractions to add and subtract fractions and mixed numbers. Use and understand a set procedure for multiplication and division of fractions and mixed numbers.	Fluently add and subtract fractions and mixed numbers with like and unlike denominators. Fluently multiply fractions and mixed numbers. Fluently divide fractions and mixed numbers.	product quotient divisor dividend

**GREENVILLE AREA SCHOOL DISTRICT
MATH CURRICULUM - GRADE 5**

		Revision Date	2023
Subject	Math	Grade Level	5
Unit	Algebra: Patterns and Graphing	Weeks of Instruction	2
Standards			
Focus	Important	Eligible Content	
CC.2.2.5.A.4 Analyze patterns and relationships using two rules.	CC.2.4.5.A.2 Represent and interpret data using appropriate scale.	M05.B-O.2.1.1	
CC.2.3.5.A.1 Graph points in the first quadrant on the coordinate plane and interpret these points when solving real world and mathematical problems.	CC.2.4.5.A.4 Solve problems involving computation of fractions using information provided in a line plot	M05-C.G.1.1.1 M05.C-G.1.1.2	
		M05.D-M.2.1.2	
		M05.D-M.2.1.1	
Big Ideas/Understandings		Misconceptions	Vocab
Data can be modeled and used to make inferences. Patterns exhibit relationships that can be extended, described, and generalized.		Students tend to reverse the numbers in a coordinate pair when graphing. Students confuse the X and Y axis.	data interval line graph ordered pair coordinates origin scale x-axis y-axis x-coordinate y-coordinate
Knowledge/Concepts Students will know...		Skills/Competencies Students will be able to...	

Analyze patterns and relationships.	Read and write coordinate pairs.	
Represent and interpret data.	Plot coordinate pairs on a coordinate grid.	
Graph point on coordinate grids to solve real world and mathematical problems.	Read, understand, and plot data on various types of graphs.	

		Revision Date
Subject	Math	Grade Level
Unit	Convert Units of Measure	Weeks of Instruction
Standards		
Focus	Important	Eligible Content
CC.2.4.5.A.1 Solve problems using conversion with a given measurement system.		M05.D-M.1.1.1
Big Ideas/Understandings		Misconceptions
Measurement attributes can be quantified and estimated using customary and metric units of measure.		Confuse and misidentify conversions
Knowledge/Concepts Students will know...		Skills/Competencies Students will be able to...

Convert like measurement units within a given measurement system.	Convert within a measurement system to solve real world problems. Use customary and metric conversions to solve real world problems.
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**GREENVILLE AREA SCHOOL DISTRICT
MATH CURRICULUM - GRADE 5**

			Revision Date	2023
Subject	Math		Grade Level	5
Unit	Geometry and Volume		Weeks of Instruction	3
Standards				
Focus		Important	Eligible Content	
CC.2.3.5.A.2 Classify two-dimensional figures into categories based on an understanding of their properties. CC.2.4.5.A.5 Apply concepts of volume to solve problems and relate volume to multiplication and addition.			M05.C-G.2.1.1 M05.D-M.3.1.1 M05.D-M.3.1.2	
Big Ideas/Understandings		Misconceptions		Vocab
Geometric relationships can be described, analyzed, and classified based on spatial reasoning and/or visualization.		Classifying geometric shapes Struggle with 3-D shapes when on a 2-D paper - can't visualize		acute triangle scalene triangle obtuse triangle equilateral triangle isosceles triangle parallelogram rhombus trapezoid right triangle base congruent lateral face prism rectangle pyramid polygon regular polygon
Knowledge/Concepts Students will know...		Skills/Competencies Students will be able to...		
Understand concepts of volume and relate to multiplication and addition. Classify two-dimensional figures into categories based on their properties		Identify geometric shapes based on shape and number of sides.		

**GREENVILLE AREA SCHOOL DISTRICT
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			Revision Date	2023
Subject	Math		Grade Level	5
Unit	Getting Ready For Sixth Grade		Weeks of Instruction	3
Standards				
Focus		Important	Eligible Content	
		CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems. CC.2.2.6.B.1 Apply and extend previous understandings of arithmetic to algebraic expressions. CC.2.2.6.B.2 Understand the process of solving a one-variable equation or inequality and apply to real-world and mathematical problems. CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples CC.2.4.6.B.1 Demonstrate an understanding of statistical variability by displaying, analyzing, and summarizing distributions.	M06.A-R.1.1.1 M06.A-R.1.1.2 M06.A-R.1.1.3 M06.A-R.1.1.4 M06.A-R.1.1.5	M06-.E.1.1.1 M06.B-E.1.1.2 M06.B-E.1.1.3 M06.B-E.1.1.4 M06.B-E.1.1.5
			M06.B-E.2.1.1 M06.B-E.2.1.2 M06.B-E.2.1.3 M06.B-E.2.1.4	M06.A-N.2.2.1 M06.A-N.2.2.2 M06.D-S.1.1.1 M06.D-S.1.1.2 M06.D-S.1.1.3 M06.D-S.1.1.4
Big Ideas/Understandings		Misconceptions		Vocab
Mathematical relationships can be represented as expressions, equations, and inequalities in mathematical situations. Rate and ratios are used in a wide variety of real-world applications. Percents describe the parts when compared to the whole when using 100 as the base. Data displays are used to make sense of data using visual representation.		Percents can be greater than 1. Can not use fractions and percents together. Multiply base and exponent together. Do not identify mean and average as being the same.		Prime factorization GCF Improper fraction Proper fraction Simplify Equivalent ratio Rate Ratio Unit rate Percent Exponent Base Expression Mode Average Mean Maximum Minimum

Knowledge/Concepts Students will know...	Skills/Competencies Students will be able to...	
Understand the place value system. Understand ordering numbers and number lines. Equivalent ratios. What a unit rate is. Percent means per 100. Exponents are repeated multiplication. Numerical expressions involve numbers and variables. Data can be modeled and used to make inferences.	Order and compare fractions, decimals, and percents. Model ratios. Compute equivalent ratios and unit rates. Find percent of a whole. Convert between fraction, decimal, and percent. Write and evaluate expressions using exponents. Identify landmark data.	