

AS D Name	BSH C Name	S Description	Standard Pacing	Common Assessments	Resources Used	Vocabulary	Instructional Practices	Notes
Expressions & Equations	Apply and extend previous understandings of arithmetic to algebraic expressions.	Apply the properties of operations to generate equivalent expressions. For example, apply the distributive property to the expression $3(2 + x)$ to produce the equivalent expression $6 + 3x$; apply the distributive property to the expression $24x + 18y$ to produce the equivalent expression $6(4x + 3y)$; apply properties of operations to $y + y$ to produce the equivalent expression $3y$.	3rd and 4th Quarters -		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			
Expressions & Equations	Apply and extend previous understandings of arithmetic to algebraic expressions.	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = \frac{1}{2}$.	1st and 3rd Quarters +		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			

Expressions & Equations	Apply and extend previous understandings of arithmetic to algebraic expressions.	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. For example, describe the expression $2(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both a single entity and a sum of two terms.	3rd and 4th Quarters -		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			
Expressions & Equations	Apply and extend previous understandings of arithmetic to algebraic expressions.	Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them). For example, the expressions $y + y + y$ and $3y$ are equivalent because they name the same number regardless of which number y stands for.	3rd and 4th Quarters		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			
Expressions & Equations	Reason about and solve one-variable equations and inequalities.	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.	3rd Quarter +		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			
Expressions & Equations	Reason about and solve one-variable equations and inequalities.	Understand solving an equation or inequality as a process of answering a question: which values from a	3rd Quarter +		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			

		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.						
Expressions & Equations	Reason about and solve one-variable equations and inequalities.	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.	3rd Quarter +			Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc		
Expressions & Equations	Represent and analyze quantitative relationships between dependent and independent variables.	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. For example, in a problem involving motion at	4th Quarter -			Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc		

		constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.						
Expressions & Equations	Reason about and solve one-variable equations and inequalities.	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.	3rd Quarter +		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			
Expressions & Equations	Apply and extend previous understandings of arithmetic to algebraic expressions.	Write and evaluate numerical expressions involving whole-number exponents.	1st and 2nd Quarter +		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			
Expressions & Equations	Apply and extend previous understandings of arithmetic to algebraic expressions.	Write expressions that record operations with numbers and with letters standing for numbers. For example, express the calculation "Subtract y from 5" as $5 - y$.	1st, 2nd 3rd, and 4th Quarters		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			
Expressions & Equations	Apply and extend previous understandings of arithmetic to algebraic expressions.	Write, read, and evaluate expressions in which letters stand for numbers.	1st, 2nd, 3rd, and 4th Quarters		Teacher, Textbooks, algebra tiles, counters, unifix cubes, Algebra Scales, etc			
Geometry	Solve real-world and mathematical problems involving area, surface area, and volume.	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length	3rd Quarter +		Teacher, Textbooks, Shapes, nets, graphing boards and paper, cubes and Power Solids etc.			

		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.						
Geometry	Solve real-world and mathematical problems involving area, surface area, and volume.	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.	3rd Quarter +		Teacher, Textbooks, Shapes, nets, graphing boards and paper, cubes and Power Solids etc.			
Geometry	Solve real-world and mathematical problems involving area, surface area, and volume.	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 $V = lwh$ and $V = bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	3rd Quarter +		Teacher, Textbooks, Shapes, nets, graphing boards and paper, cubes and Power Solids etc.			

Geometry	Solve real-world and mathematical problems involving area, surface area, and volume.	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	3rd Quarter +		Teacher, Textbooks, Shapes, nets, graphing boards and paper, cubes and Power Solids etc.			
Ratios & Proportional Relationships	Understand ratio concepts and use ratio reasoning to solve problems.	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	3rd Quarter +		Textbook, Teacher, 100 grids, Ratio Tables, Bar Models,			
Ratios & Proportional Relationships	Understand ratio concepts and use ratio reasoning to solve problems.	Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	3rd Quarter +		Textbook, Teacher, 100 grids, Ratio Tables, Bar Models,			
Ratios & Proportional Relationships	Understand ratio concepts and use ratio reasoning to solve problems.	Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?	3rd Quarter +		Textbook, Teacher, 100 grids, Ratio Tables, Bar Models,			
Ratios & Proportional Relationships	Understand ratio concepts and use ratio reasoning to	Understand the concept of a ratio and use ratio language to			Textbook, Teacher, 100 grids, Ratio Tables, Bar			

	<p>solve problems.</p>	<p>describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."</p>			<p>Models,</p>			
<p>Ratios & Proportional Relationships</p>	<p>Understand ratio concepts and use ratio reasoning to solve problems.</p>	<p>Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."</p>	<p>3rd Quarter +</p>		<p>Classroom examples,</p>			
<p>Ratios & Proportional Relationships</p>	<p>Understand ratio concepts and use ratio reasoning to solve problems.</p>	<p>Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$, and use rate language in the context of a ratio relationship. For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is $3/4$ cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger."</p>			<p>Textbook, Teacher, 100 grids, Ratio Tables, Bar Models,</p>			

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Ratios & Proportional Relationships	Understand ratio concepts and use ratio reasoning to solve problems.	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.	3rd Quarter +		Textbook, Teacher, 100 grids, Ratio Tables, Bar Models,			
Ratios & Proportional Relationships	Understand ratio concepts and use ratio reasoning to solve problems.	Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.	3rd Quarter +		Textbook, Teacher, 100 grids, Ratio Tables, Bar Models,			
Statistics & Probability	Summarize and describe distributions.	Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and Catagorical Data, graph boards and paper etc.			
Statistics & Probability	Summarize and describe distributions.	Display numerical data in plots on a number line, including dot plots,	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and Catagorical			

		histograms, and box plots.			Data, graph boards and paper etc.			
Statistics & Probability	Summarize and describe distributions.	Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and Catagorical Data, graph boards and paper etc.			
Statistics & Probability	Develop understanding of statistical variability.	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers. For example, "How old am I?" is not a statistical question, but "How old are the students in my school?" is a statistical question because one anticipates variability in students' ages.	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and Catagorical Data, graph boards and paper etc.			
Statistics & Probability	Develop understanding of statistical variability.	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.	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and Catagorical Data, graph boards and paper etc.			
Statistics & Probability	Summarize and describe distributions.	Relating the choice of measures of center and variability to the	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and			

		shape of the data distribution and the context in which the data were gathered.			Catagorical Data, graph boards and paper etc.			
Statistics & Probability	Summarize and describe distributions.	Reporting the number of observations.	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and Catagorical Data, graph boards and paper etc.			
Statistics & Probability	Summarize and describe distributions.	Summarize numerical data sets in relation to their context, such as by:	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and Catagorical Data, graph boards and paper etc.			
Statistics & Probability	Develop understanding of statistical variability.	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.	1st Quarter +		Teacher, Textbooks, Professional graphs, Numerical and Catagorical Data, graph boards and paper etc.			
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.	4th Quarter -		Textbooks, Teacher			
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	1st Quarter +		Textbooks, Teacher			

The Number System	Compute fluently with multi-digit numbers and find common factors and multiples.	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 as a multiple of a sum of two whole numbers with no common factor. For example, express $36 + 8$ as $4(9 + 2)$.	2nd Quarter +		Textbooks, Teacher, Fraction Stacks, Fraction Charts, Graph Paper			
The Number System	Compute fluently with multi-digit numbers and find common factors and multiples.	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	1st Quarter +		Textbooks, Teacher, Fraction Stacks, Fraction Charts, Graph Paper			
The Number System	Compute fluently with multi-digit numbers and find common factors and multiples.	Fluently divide multi-digit numbers using the standard algorithm.	1st Quarter +		Textbooks, Teacher, Fraction Stacks, Fraction Charts, Graph Paper			
The Number System	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the	2nd Quarter +		Textbooks, Teacher, Fraction Stacks, Fraction Charts, Graph Paper			

		relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?						
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret $-3 > -7$ as a statement that -3 is located to the right of -7 on a number line oriented from left to right.	2nd Quarter +		Textbooks, Teacher			
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.	1st Quarter +		Textbooks, Teacher			
The Number System	Apply and extend previous understandings of numbers to	Solve real-world and mathematical problems by graphing points	1st and 4th Quarter +		Textbooks, Teacher			

	the system of rational numbers.	in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.						
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	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.	1st Quarter +		Textbooks, Teacher			
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Understand ordering and absolute value of rational numbers.	4th Quarter -		Textbooks, Teacher			
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	1st Quarter +		Textbooks, Teacher			
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g.,	1st Quarter +		Textbooks, Teacher			

		temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.						
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write $ -30 = 30$ to describe the size of the debt in dollars.	4th Quarter -		Textbooks, Teacher			
The Number System	Apply and extend previous understandings of numbers to the system of rational numbers.	Write, interpret, and explain statements of order for rational numbers in real-world contexts. For example, write $-3^{\circ}\text{C} > -7^{\circ}\text{C}$ to express the fact that -3°C is warmer than -7°C .	2nd Quarter +		Textbooks, Teacher			