

Sixth Grade

Trimester	1	2	3	4
Ratio and Proportional Relationships				
6.RP.3 Use ratio and rate reasoning to solve problems by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, and equations.				
2	Unable or rarely able to use ratio language to describe a ratio relationship between two quantities	Inconsistently uses ratio language to describe a ratio relationship between two quantities	Consistently uses ratio language to describe a ratio relationship between two quantities	Uses multiple strategies to solve ratio and rate problems and clearly explains their thinking
	Unable or rarely able to express unit rates	Inconsistently expresses unit rates	Consistently expresses unit rates	
	Unable or rarely able to find percents as a rate per 100	Inconsistently finds percents as a rate per 100	Consistently finds percents as a rate per 100	
	Unable or rarely able to convert measurement units	Inconsistently converts measurement units	Consistently converts measurement units	
	Unable or rarely able to use tables and double number line diagrams to solve ratio and rate problems	Inconsistently uses tables and double number line diagrams to solve ratio and rate problems	Consistently uses tables and double number line diagrams to solve ratio and rate problems	
The Number System				
6.NS.1, 2, 3, 4 Compute fluently with multi-digit numbers and find common factors and multiples.				
1st	Unable or rarely able to add, subtract, multiply and/or divide multi-digit numbers	Inconsistently adds, subtracts, multiplies, and/or divides multi-digit numbers accurately	Consistently adds, subtracts, multiplies, and/or divides multi-digit numbers accurately	Makes connections to other ideas or concepts and challenges themselves
	Unable or rarely able to find the greatest common factor of two whole numbers 1-100	Inconsistently finds the greatest common factor of two whole numbers 1-100	Consistently finds the greatest common factor of two whole numbers 1-100	
	Unable or rarely able to find the least common multiple of two whole numbers 1-12	Inconsistently finds the least common multiple of two whole numbers 1-12	Consistently finds the least common multiple of two whole numbers 1-12	
	Unable or rarely able to add and subtract fractions	Inconsistently adds and subtracts fractions	Consistently adds and subtracts fractions	

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The Number System				
6.NS.1, 2, 3, 4 Compute fluently with multi-digit numbers and find common factors and multiples.				
2nd	Unable or rarely able to add, subtract, multiply and/or divide multi-digit decimals	Inconsistently adds, subtracts, multiplies and/or divides multi-digit decimals	Consistently adds, subtracts, multiplies and/or divides multi-digit decimals	Makes connections to other ideas or concepts and challenges themselves
	Unable or rarely able to multiply and divide fractions with visual models and equations	Inconsistently multiplies and divides fractions with visual models and equations	Consistently multiplies and divides fractions with visual models and equations	
6.NS.5, 6, 7, 8 Apply and extend previous understandings of numbers to the system of rational numbers				
2nd.	Unable or rarely able to plot both positive and negative numbers on a numberline accurately	Inconsistently plots both positive and negative numbers on a numberline accurately	Consistently plots both positive and negative numbers on a numberline accurately	Makes connections to other ideas and concepts and challenges themselves
	Unable or rarely able to plot ordered pairs on a four quadrant coordinate plane	Inconsistently able to plot ordered pairs on a four quadrant coordinate plane	Consistently able to plot ordered pairs on a four quadrant coordinate plane	
	Unable or rarely able to order rational numbers in real world context (temperature, account balance)	Inconsistently orders rational numbers in real world context	Consistently orders rational numbers in real world context	
Expressions and Equations				
6.EE.5, 6, 7, 8 Reason about and solve one-variable equations and inequalities				
1st	Unable or rarely able to identify a variable, coefficient, constant and factor	Inconsistently identifies a variable, coefficient, constant and factor	Consistently identifies a variable, coefficient, constant and factor	Makes connections to other ideas or concepts and challenges themselves
	Unable or rarely able to write expressions to record operations with numbers and letters (subtract 5... X - 5)	Inconsistently writes an expression to record operations with numbers and letters	Consistently writes an expression to record operations with numbers and letters	
	Unable or rarely able to use the order of operations to solve an equation	Inconsistently uses the order of operations when solving equations	Consistently uses the order of operations when solving equations	
Expressions and Equations				

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6.EE.5, 6, 7, 8 Reason about and solve one-variable equations and inequalities				
1st	Unable or rarely able to use equivalent equations to solve one-variable equations	Inconsistently uses equivalent equations to solve one-variable equations	Consistently uses equivalent equations to solve one-variable equations	Makes connections to other ideas or concepts and challenges themselves
	Unable or rarely able to write an inequality to represent a condition in a problem	Inconsistently writes an inequality to represent a condition in a problem	Consistently writes an inequality to represent a condition in a problem	
	Unable or rarely able to write and/or read numbers in expanded notation with exponents	Inconsistently writes and/or reads numbers in expanded notation with exponents	Consistently writes and/or reads numbers in expanded notation with exponents	
6.EE. 9 Represent and analyze quantitative relationships between dependent and independent variables				
3rd	Unable or rarely able to identify the dependent and independent variable in a problem	Inconsistently identifies the independent and dependent variable in a problem	Consistently identifies the independent and dependent variable in a problem	Makes connections to other ideas or concepts and challenges themselves
	Unable or rarely able to write an expression to illustrate the relationship between a dependent and independent variable	Inconsistently writes an expression that illustrates the relationship between a dependent and independent variable	Consistently writes an expression that illustrates the relationship between a dependent and independent variable	
	Unable or rarely able to describe the change on a coordinate graph of one variable as the other variable increases by 1	Inconsistently describes the change on a coordinate graph of one variable as the other variable increases by 1	Consistently describes the change on a coordinate graph of one variable as the other variable increases by 1	
	Unable or rarely able to make a table that illustrates the relationship between a dependent and independent variable	Inconsistently makes a table that illustrates the relationship between a dependent and independent variable	Consistently makes a table that illustrates the relationship between a dependent and independent variable	

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Geometry				
6.G.1, 2, 3, 4 Solve real-world and mathematical problems involving area of polygons, surface area, and volume				
2nd	Unable or rarely able to find the area of polygons by decomposing into triangles and/or rectangles	Inconsistently finds the area of polygons by decomposing into triangles and /or rectangles	Consistently finds the area of polygons by decomposing into triangles and /or rectangles	Makes connections to other ideas and concepts and challenges themselves
	Unable or rarely able to find the volume of a right rectangular prism	Inconsistently finds the volume of a right rectangular prism	Consistently finds the volume of a right rectangular prism	
	Unable or rarely able to find the volume of a right rectangular prism with fractional edge lengths with models	Inconsistently finds the volume of a right rectangular prism with fractional edge lengths with models	Consistently finds the volume of a right rectangular prism with fractional edge lengths with models	Consistently finds the volume of a right rectangular prism with fractional edge lengths with a clear explanation
	Unable or rarely able to use nets to find the surface area of 3D shapes made up of triangles and rectangles	Inconsistently uses nets to find the surface area of 3D shapes made up of triangles and rectangles	Consistently uses nets to find the surface area of 3D shapes made up of triangles and rectangles	Can clearly explain in words and equations how to find the surface area of a 3D shape composed of triangles and rectangles
Statistics and Probability				
6.SP.1, 2, 3, 4, 5 Summarize and describe statistical data				
3rd	Unable or rarely able to display numerical data in plots on a number line, histogram and/or box plot	Inconsistently displays numerical data in plots on a number line, histogram and/or box plot	Consistently displays numerical data in plots on a number line, histogram and/or box plot	Makes connections to other ideas and concepts and challenges themselves
	Unable or rarely able to find the median and/or mean of a set of data	Inconsistently finds the median and/or mean of a set of data	Consistently finds the median and/or mean of a set of data	
	Unable or rarely able to find the interquartile range and/or mean absolute deviation of a set of data	Inconsistently finds the interquartile range and/or mean absolute deviation of a set of data	Consistently finds the interquartile range and/or mean absolute deviation of a set of data	

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Assessment
diagrams, or
SF ch 6 U5 end of unit test Carne ch 5
SF ch 7 Carne ch 6
SF ch 6 Carne ch 5
SF ch 3 U2A
SF ch 3, 4 U2A

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Assessment
SF ch2 U2B
SF ch 5 U2B
SF ch 8 Algeblock ch 2-4 U3 end of unit test Math in Stride p.85-87, 95
SF ch 1 U1 end of unit test

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Assessment
SF ch 1 U1 end of unit test
SF U12 Gasoline Task, Math in Stride Performance Assessment p.8 U6 end of unit test

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Assessment
SF ch 10: Math in Stride p.3,4 U4 end of unit test
SF ch 11 Carne ch 15 U7 end of unit test
Sf ch 11 Carne ch 16 U7 end of unit test