

# Wyoming Department of Education Required Virtual Education Course Syllabus

## Niobrara County School District # 1

Program Name	Wyoming Virtual Academy	Content Area	MA
Course ID	D-MTH-06BV2-K	Grade Level	6
Course Name	Summit Math 6-sem2	# of Credits	
SCED Code		Curriculum Type	K12 Inc

### COURSE DESCRIPTION

Offered 2<sup>nd</sup> semester. In the Summit Math 6 course, students deepen their understanding of multiplication and division of fractions to apply their knowledge to divide fractions by fractions, with an additional focus on increasing efficiency and fluency. Students gain a foundation in the concepts of ratio and rate as an extension of their work with whole number multiplication and division, and in preparation for work with proportional relationships in Grade 7. Students also make connections among area, volume, and surface area, and continue to lay the groundwork for deep algebraic understanding by interpreting and using expressions and equations.

### WYOMING CONTENT AND PERFORMANCE STANDARDS

STANDARD#	<a href="#">BENCHMARK (Standard/Indicator) Use the Standards and Benchmarks as Spreadsheets</a>
6.RP.A.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.
6.RP.A.2	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.
6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems.
6.RP.A.3a	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.
6.RP.A.3b	Solve unit rate problems including those involving unit pricing and constant speed.
6.RP.A.3c	Understand that a percentage is a rate per 100 and use this to solve problems involving wholes, parts, and percentages.
6.RP.A.3d	Use ratio reasoning to convert measurement units; convert units appropriately when multiplying or dividing quantities.

6.NS.C.3	Add, subtract, multiply, and divide manageable multi-digit decimals using efficient and generalizable procedures including, but not limited to the standard algorithm for each operation.
6.EE.E.2	Write, read, and evaluate expressions in which letters stand for numbers.
6.EE.E.2a	Write expressions that record operations with numbers and with letters standing for numbers.
6.EE.E.2c	Use Order of Operations to evaluate algebraic expressions at using positive rational numbers and whole-number exponents. Include expressions that arise from formulas in real-world problems.
6.EE.F.6	Use variables to represent unknown numbers and write expressions when solving a real-world or mathematical problem.
6.EE.F.7	Write and solve real-world and mathematical problems in the form of one-step, linear equations involving nonnegative rational numbers.
6.G.H.1	Find 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.
6.G.H.2	Find the volume of a right rectangular prism with fractional edge lengths in the context of solving real-world and mathematical problems by applying the formulas $V = (l)(w)(h)$ and $V = (B)(h)$ , and label with appropriate units.
6.G.H.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.
6.G.H.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures in the context of solving real-world and mathematical problems.
6.SP.I.1	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.
6.SP.I.2	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.
6.SP.I.3	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.
6.SP.J.4	Display numerical data in plots on a number line, including dot plots, stem-and-leaf plots, histograms, and box plots.

6.SP.J.5	Summarize numerical data sets in relation to their real-world context.
6.SP.J.5a	Report the sample size.
6.SP.J.5b	Describe the context of the data under investigation, including how it was measured and its units of measurement.
6.SP.J.5c	Find quantitative measures of center (median, mode and mean) and variability (range and interquartile range). Describe any overall pattern (including outliers, clusters, and distribution), with reference to the context in which the data was gathered.
6.SP.J.5d	Justify the choice of measures of center (median, mode, or mean) based on the shape of the data distribution and the context in which the data was gathered.

Unit Outline	Standard	outcome objectives/ student centered goals
U1.1 Ratios and Rates Exchange Ideas	6.RP.A.2 6.RP.A.3	<p>Compute a unit rate, limited to whole numbers.</p> <p>Describe a unit rate relationship.</p> <p>Solve a mathematical problem using rates.</p> <p>Solve a real-world problem using rates.</p> <p>Solve an unit rate problem involving unit pricing.</p> <p>Solve an unit rate problem.</p> <p>Compute an unit rate, limited to whole numbers.</p>
U1.2 Ratios and Rates Ratios	6.RP.A.1	<p>Describe a ratio relationship between two quantities.</p> <p>Write a ratio describing the relationship between two or more quantities when the quantities are given with different units.</p> <p>Represent a ratio in different formats.</p> <p>Classify a whole number from 1 to 100 as prime or composite.</p> <p>Represent a fraction in simplest form.</p> <p>Write a ratio describing the relationship between two or more quantities when the quantities are given with the same units.</p>
U1.3 Ratios and Rates Compare Ratios	6.RP.A.3 6.RP.A.3a	<p>Solve a mathematical problem using ratios.</p> <p>Solve a real-world problem using ratios.</p> <p>Compare ratios, limited to whole number measurements.</p> <p>Determine equivalent ratios, limited to whole number measurements.</p> <p>Determine the missing values in a table of equivalent ratios, limited to whole number measurements.</p> <p>Plot pairs of values of a ratio on the coordinate plane,</p>

		<p>limited to whole number measurements.</p> <p>Compare ratios using tables, limited to whole number measurements.</p> <p>Solve a mathematical problem using ratios.</p>
U1.4 Ratios and Rates Unit Rates	<p>6.RP.A.2</p> <p>6.NS.C.3</p>	<p>Compute an unit rate, limited to whole numbers.</p> <p>Describe an unit rate relationship.</p> <p>Solve a real-world problem using rates.</p> <p>Solve an unit rate problem involving unit pricing.</p> <p>Solve an unit rate problem.</p> <p>Divide a multidigit decimal by a whole number.</p> <p>Solve a mathematical problem using rates.</p>
U1.5 Ratios and Rates Your Choice		<p>Take initiative to further your own learning.</p>
U1.6 Ratios and Rates Average Speed Problems	<p>6.RP.A.3b</p>	<p>Solve a real-world problem using rates.</p> <p>Solve an unit rate problem involving constant speed.</p> <p>Solve a problem involving constant rates using the distance formula.</p> <p>Solve a real-world problem using rates.</p> <p>Solve an unit rate problem involving constant speed.</p> <p>Solve a mathematical problem by writing and solving an equation in the form <math>px = q</math>, limited to nonnegative rational numbers.</p>
U1.7 Ratios and Rates Constant Rate Problems	<p>6.RP.A.3b</p>	<p>Solve a mathematical problem using rates.</p> <p>Solve a problem involving constant rates using the work formula.</p> <p>Write a ratio describing the relationship between two or more quantities when the quantities are given with different units.</p>
U1.8 Ratios and Rates Your Choice		<p>Take initiative to further your own learning.</p>
U1.9 Ratios and Rates Convert Units 1	<p>6.RP.A.3d</p>	<p>Convert a measurement unit between the English and the metric system, using ratio reasoning.</p> <p>Convert a measurement unit within the English system, using ratio reasoning.</p> <p>Convert measurement units within the metric system, using ratio reasoning.</p> <p>Convert like measurement units within the U.S. customary measurement system.</p> <p>Convert like measurement units within the metric measurement system.</p>

U1.10 Ratios and Rates Convert Units 2	6.RP.A.3d	<p>Convert a measurement unit when multiple steps are required, using ratio reasoning.</p> <p>Extend and deepen your understanding by discussing the content with your peers.</p> <p>Convert a measurement unit between the English and the metric system, using ratio reasoning.</p> <p>Convert a measurement unit within the English system, using ratio reasoning.</p> <p>Convert measurement units within the metric system, using ratio reasoning.</p>
U1.11 Ratios and Rates Unit Review		Review what you have learned and prepare for the Unit Test.
U1.12 Ratios and Rates Unit Test	6.RP.A.3b 6.RP.A.3d	<p>Write a ratio describing the relationship between two or more quantities when the quantities are given with different units.</p> <p>Solve a real-world problem using rates.</p> <p>Solve an unit rate problem involving unit pricing.</p>
U1.13 Ratios and Rates Extended Problems	6.RP.A.3b	<p>Solve a real-world problem using rates.</p> <p>Solve an unit rate problem involving constant speed.</p> <p>Solve an unit rate problem involving unit pricing.</p>
U1.14 Ratios and Rates Course Introduction		Prepare for the course by previewing the course structure and key course components.
U2.1 Percents Exchange Ideas	6.RP.A.3c	Solve a real-world problem involving percents.
U2.2 Percents Percents 1	6.RP.A.3c	<p>Determine the part, given the whole and the percent.</p> <p>Determine the percent, given the part and the whole.</p> <p>Determine the whole, given the part and the percent.</p> <p>Solve a real-world problem involving percents.</p> <p>Write a ratio describing the relationship between two or more quantities when the quantities are given with different units.</p>
U2.3 Percents Percents 2	6.RP.A.3c	<p>Determine the part, given the whole and the percent.</p> <p>Determine the percent, given the part and the whole.</p> <p>Determine the whole, given the part and the percent.</p> <p>Solve a real-world problem involving percents.</p>
U2.4 Percents Percent Equations: Find the Part	6.RP.A.3c 6.NS.C.3	<p>Determine the part, given the whole and the percent.</p> <p>Multiply multidigit decimals.</p>
U2.5 Percents Percent Equations: Find the Whole	6.RP.A.3c	Determine the whole, given the part and the percent.

U2.6 Percents Percent Equations: Applications	6.RP.A.3c	Solve a real-world problem involving percents. Classify a whole number from 1 to 100 as prime or composite.
U2.7 Percents Your Choice		Take initiative to further your own learning.
U2.8 Percents Application of Percents: Circle Graphs	6.RP.A.3c	Interpret a circle graph. Determine the part, given the whole and the percent. Extend and deepen your understanding by discussing the content with your peers.
U2.9 Percents Unit Review		Review what you have learned and prepare for the Unit Test.
U2.10 Percents Unit Test	6.RP.A.3c	Determine the whole, given the part and the percent. Interpret a circle graph. Solve a real-world problem involving percents.
U2.11 Percents Extended Problems	6.RP.A.3c	Determine the part, given the whole and the percent. Determine the percent, given the part and the whole. Determine the whole, given the part and the percent. Solve a real-world problem involving percents.
U3.1 Area Exchange Ideas	6.G.H.1	Determine the area of a polygon, by composing it into rectangles or decomposing it into triangles and/or other shapes. Determine the area of a polygon, by composing it into rectangles or decomposing it into triangles and/or other shapes.
U3.2 Area Area of Rectangles	6.G.H.1 6.EE.E.2 6.EE.E.2a 6.EE.E.2c	Determine the area of a rectangle with fractional side lengths, using the formula $A = bh$ . Solve a real-world problem related to the area of a rectangle with fractional side lengths, using the formula $A = bh$ . Determine the area of a rectangle with side lengths represented as decimals, using the formula $A = bh$ . Solve a real-world problem related to the area of a rectangle with side lengths represented as decimals, using the formula $A = bh$ . Solve a real-world problem given a formula. Evaluate an expression, using given values for variables. Classify a whole number from 1 to 100 as prime or composite.
U3.3 Area Your Choice		Take initiative to further your own learning.

U3.4 Area Area of Parallelograms 1	6.G.H.1 6.EE.F.7	Determine the area of a parallelogram by composing it into rectangles or decomposing it into triangles and/or other shapes. Solve a real-world problem related to the area of a parallelogram, by composing it into rectangles or decomposing it into triangles and/or other shapes. Solve a mathematical problem by writing and solving an equation in the form $px = q$ , limited to nonnegative rational numbers.
U3.5 Area Area of Parallelograms 2	6.G.H.1 6.EE.F.7	Determine the base or height of a parallelogram when the area is given. Determine the base or height of a rectangle when the area is given. Solve a real-world problem related to the area of a parallelogram, by composing it into rectangles or decomposing it into triangles and/or other shapes. Classify a whole number from 1 to 100 as prime or composite.
U3.6 Area Area of Triangles 1	6.G.H.1	Determine the area of a triangle. Determine the base or height of a triangle when the area is given. Multiply fractions and mixed numbers. Solve a real-world problem related to the area of a triangle.
U3.7 Area Area of Triangles 2	6.G.H.1	Determine the area of a polygon, by composing it into rectangles or decomposing it into triangles and/or other shapes. Solve a real-world problem related to the area of a polygon, by composing it into rectangles or decomposing it into triangles and/or other shapes. Determine the area of a triangle. Determine the base or height of a triangle when the area is given.
U3.8 Area Your Choice		Take initiative to further your own learning.
U3.9 Area Area of Trapezoids 1	6.G.H.1	Determine the area of a trapezoid by composing it into rectangles or decomposing it into triangles and/or other shapes. Solve a real-world problem given a formula.
U3.10 Area Area of Trapezoids 2	6.G.H.1	Determine the height of a trapezoid when the area and length of the two bases are given. Solve a real-world problem related to the area of a

		<p>trapezoid, by composing it into rectangles or decomposing it into triangles and/or other shapes.</p> <p>Classify a whole number from 1 to 100 as prime or composite.</p>
U3.11 Area Polygons in the Coordinate Plane	6.G.H.3	<p>Represent a polygon in the coordinate plane.</p> <p>Solve a problem using a polygon or polygons and the coordinate plane.</p> <p>Determine the distance between two points using ordered pairs with the same first coordinate or the same second coordinate, in any quadrant of the coordinate plane.</p> <p>Name an ordered pairs that is a reflection of a given ordered pair on a coordinate plane, across one or both axes.</p> <p>Determine the axis across which a point was reflected given the point's coordinates and the coordinates of its reflection.</p> <p>Determine the length of a side of a polygon by joining the points with the same first coordinate or the same second coordinate, shown on a coordinate plane.</p> <p>Extend and deepen your understanding by discussing the content with your peers.</p> <p>Classify a whole number from 1 to 100 as prime or composite.</p>
U3.12 Area Unit Review		<p>Review what you have learned and prepare for the Unit Test.</p>
U3.13 Area Unit Test	6.G.H.1	<p>Determine the area of a parallelogram by composing it into rectangles or decomposing it into triangles and/or other shapes.</p> <p>Solve a real-world problem related to the area of a trapezoid, by composing it into rectangles or decomposing it into triangles and/or other shapes.</p> <p>Solve a problem using a polygon or polygons and the coordinate plane.</p>
U3.14 Area Extended Problems	6.G.H.1	<p>Solve a real-world problem related to the area of a parallelogram, by composing it into rectangles or decomposing it into triangles and/or other shapes.</p> <p>Solve a real-world problem related to the area of a trapezoid, by composing it into rectangles or decomposing it into triangles and/or other shapes.</p> <p>Solve a real-world problem related to the area of a triangle.</p> <p>Solve a real-world problem related to the area of a</p>

		rectangle with side lengths represented as decimals, using the formula $A = bh$ .
U3.15 Area Math 6 Checkpoint 3	6.NS.C.3 6.RP.A.3c 6.RP.A.3d	Solve a real-world problem involving the subtraction of multidigit decimals. Solve a real-world problem involving percents. Convert a measurement unit when multiple steps are required, using ratio reasoning.
U3.16 Area Your Choice		Take initiative to further your own learning.
U4.1 Surface Area and Volume Exchange Ideas	6.G.H.4	Determine the surface area of a three-dimensional figure, using a net made up of rectangles and/or triangles. Represent a three-dimensional figure, using a net made up of rectangles and/or triangles. Solve a real-world problem involving the surface area of a three-dimensional figure, using a net made up of rectangles and/or triangles.
U4.2 Surface Area and Volume Nets of Three-Dimensional Figures	6.G.H.4 6.G.H.1	Represent a three-dimensional figure, using a net made up of rectangles and/or triangles. Determine the area of a polygon, by composing it into rectangles or decomposing it into triangles and/or other shapes.
U4.3 Surface Area and Volume Your Choice		Take initiative to further your own learning.
U4.4 Surface Area and Volume Surface Area	6.G.H.4 6.G.H.1	Determine the surface area of a three-dimensional figure, using a net made up of rectangles and/or triangles. Represent a three-dimensional figure, using a net made up of rectangles and/or triangles. Solve a real-world problem involving the surface area of a three-dimensional figure, using a net made up of rectangles and/or triangles.
U4.5 Surface Area and Volume Find Volume with Unit Cubes	6.G.H.2	Determine the volume of a right rectangular prism with fractional edge lengths. Solve a real-world problem about the volume of a right rectangular prism with fractional edge lengths. Multiply fractions.
U4.6 Surface Area and Volume Your Choice		Take initiative to further your own learning.
U4.7 Surface Area and Volume Volume of Rectangular Prisms 1	6.G.H.2	Solve a mathematical problem involving the volume of right rectangular prisms using the formula $V = l \times w \times h$ , limited to whole number edge lengths.

		<p>Solve a real-world problem involving the volume of right rectangular prisms with whole-number side lengths.</p> <p>Determine the volume of a right rectangular prism with fractional edge lengths.</p> <p>Solve a real-world problem about the volume of a right rectangular prism with fractional edge lengths.</p>
U4.8 Surface Area and Volume Volume of Rectangular Prisms 2	6.G.H.2	<p>Solve a problem involving the volume of right rectangular prisms with whole-number side lengths.</p> <p>Solve a problem about the volume of a right rectangular prism with fractional edge lengths.</p> <p>Solve a mathematical problem involving the volume of right rectangular prisms using the formula <math>V = l \times w \times h</math>, limited to whole number edge lengths.</p> <p>Determine the volume of a right rectangular prism with fractional edge lengths.</p> <p>Extend and deepen your understanding by discussing the content with your peers.</p>
U4.9 Surface Area and Volume Unit Review		Review what you have learned and prepare for the Unit Test.
U4.10 Surface Area and Volume Unit Test	6.G.H.2 6.G.H.4	<p>Determine the volume of a right rectangular prism with fractional edge lengths.</p> <p>Determine the surface area of a three-dimensional figure, using a net made up of rectangles and/or triangles.</p> <p>Solve a real-world problem involving the surface area of a three-dimensional figure, using a net made up of rectangles and/or triangles.</p>
U4.11 Surface Area and Volume Extended Problems	6.G.H.2 6.G.H.4	<p>Solve a problem involving the volume of right rectangular prisms with whole-number side lengths.</p> <p>Represent a three-dimensional figure, using a net made up of rectangles and/or triangles.</p> <p>Solve a real-world problem involving the surface area of a three-dimensional figure, using a net made up of rectangles and/or triangles.</p>
U5.1 Statistical Graphs Exchange Ideas	6.SP.J.4	<p>Represent numerical data on a frequency table.</p> <p>Represent numerical data on a histogram.</p>
U5.2 Statistical Graphs Write and Identify Statistical Questions	6.SP.I.1	<p>Classify a question as a statistical question or not a statistical question.</p> <p>Explain why a question is a statistical question or is not a statistical question.</p> <p>Write a question that can be used to collect statistical</p>

		<p>information.</p> <p>Classify an inequality as true or false.</p>
U5.3 Statistical Graphs Line Plots	6.SP.J.4	<p>Analyze data represented on a line or dot plot.</p> <p>Represent numerical data on a line or dot plot.</p> <p>Represent numerical data on a line plot, limited to halves, quarters, and eighths.</p> <p>Solve a problem involving addition of fractions using information recorded in a line plot, limited to halves, quarters, and eighths.</p> <p>Solve a problem involving subtraction of fractions using information recorded in a line plot, limited to halves, quarters, and eighths.</p> <p>Add fractions and/or mixed numbers with unlike denominators.</p>
U5.4 Statistical Graphs Your Choice		<p>Take initiative to further your own learning.</p>
U5.5 Statistical Graphs Histograms 1	6.SP.J.4	<p>Represent numerical data on a frequency table.</p> <p>Represent numerical data on a histogram.</p> <p>Solve a problem by graphing rational number pairs in any quadrant of the coordinate plane.</p>
U5.6 Statistical Graphs Histograms 2	6.SP.J.4	<p>Analyze data represented on a histogram.</p> <p>Interpret data represented on a histogram.</p> <p>Extend and deepen your understanding by discussing the content with your peers.</p> <p>Classify a whole number from 1 to 100 as prime or composite.</p>
U5.7 Statistical Graphs Stem-and-Leaf Plots	6.SP.J.4	<p>Interpret data represented on a stem-and-leaf plot.</p> <p>Represent numerical data on a stem-and-leaf plot.</p> <p>Compare or order rational numbers, at a sixth grade level.</p> <p>Analyze data represented on a histogram.</p> <p>Interpret data represented on a histogram.</p> <p>Classify a whole number from 1 to 100 as prime or composite.</p>
U5.8 Statistical Graphs Box Plots 1	6.SP.J.4 6.SP.J.5c	<p>Interpret data represented on a stem-and-leaf plot.</p> <p>Determine the median of a numerical data set.</p> <p>Determine the quartiles of a data set.</p> <p>Determine the minimum, first quartile, median, third quartile, and maximum number of a data set.</p> <p>Interpret data represented on a stem-and-leaf plot.</p> <p>Graph a rational number on a number line.</p>

U5.9 Statistical Graphs Box Plots 2	6.SP.J.4	Analyze data represented on a box plot. Interpret data represented on a box plot. Represent numerical data on a box plot. Extend and deepen your understanding by discussing the content with your peers. Classify a whole number from 1 to 100 as prime or composite.
U5.10 Statistical Graphs Unit Review		Review what you have learned and prepare for the Unit Test.
U5.11 Statistical Graphs Unit Test	6.SP.I.1 6.SP.J.4	Write a question that can be used to collect statistical information. Interpret data represented on a box plot. Interpret data represented on a histogram.
U5.12 Statistical Graphs Extended Problems	6.SP.J.4	Analyze data represented on a line or dot plot. Interpret data represented on a histogram. Interpret data represented on a stem-and-leaf plot. Represent numerical data on a line or dot plot. Represent numerical data on a histogram. Represent numerical data on a stem-and-leaf plot.
U5.13 Statistical Graphs Math 6 Checkpoint 4	6.G.H.4 6.RP.A.3d 6.EE.F.6	Represent a three-dimensional figure, using a net made up of rectangles and/or triangles. Convert measurement units within the metric system, using ratio reasoning. Solve a real-world problem given a formula.
U5.14 Statistical Graphs Your Choice		Take initiative to further your own learning.
U6.1 Measures of Center and Spread Exchange Ideas	6.SP.J.5c	Determine the mean of a numerical data set.
U6.2 Measures of Center and Spread Median	6.SP.I.3 6.SP.J.4 6.SP.J.5c	Explain that a measure of center for a numerical data set summarizes all of its values with a single number and a measure of variation describe how its values vary with a single number. Analyze data represented on a box plot. Analyze data represented on a line or dot plot. Analyze data represented on a stem-and-leaf plot. Determine the median of a numerical data set. Describe the impact that inserting or deleting a data point has on a measure of center (median, mean) for a data set.

		Classify a whole number from 1 to 100 as prime or composite.
U6.3 Measures of Center and Spread Mean	6.SP.J.4 6.SP.J.5c	Analyze data represented on a line or dot plot. Analyze data represented on a stem-and-leaf plot. Determine the mean of a numerical data set. Describe the impact that inserting or deleting a data point has on a measure of center (median, mean) for a data set. Divide multidigit whole numbers, limited to answers that do not include a remainder. Classify a whole number from 1 to 100 as prime or composite.
U6.4 Measures of Center and Spread Weighted Average	6.SP.J.5c	Determine the mean of a numerical data set. Determine the weighted average of a data set. Solve a real-world problem involving percents.
U6.5 Measures of Center and Spread Your Choice		Take initiative to further your own learning.
U6.6 Measures of Center and Spread Interquartile Range 1	6.SP.J.5c	Determine the interquartile range of a numerical data set at a 6th grade level. Determine the range of a numerical data set. Classify a whole number from 1 to 100 as prime or composite.
U6.7 Measures of Center and Spread Interquartile Range 2	6.SP.J.5c 6.SP.J.5	Describe any overall pattern and any striking deviations from the overall pattern, with reference to the context in which the data were gathered. Determine the interquartile range of a numerical data set at a 6th grade level. Extend and deepen your understanding by discussing the content with your peers.
U6.8 Measures of Center and Spread Your Choice		Take initiative to further your own learning.
U6.9 Measures of Center and Spread Mean Absolute Deviation (MAD)	6.SP.I.3 6.SP.J.5c	Explain that a measure of center for a numerical data set summarizes all of its values with a single number and a measure of variation describe how its values vary with a single number Determine the absolute deviation of a numerical data set. Determine the mean absolute deviation of a numerical data set. Interpret the mean absolute deviation of a numerical data set.

		Classify a whole number from 1 to 100 as prime or composite.
U6.10 Measures of Center and Spread Distributions	6.SP.I.2 6.SP.J.5b 6.SP.J.5	<p>Explain that a set of data collected to answer a statistical question has a distribution that can be described by its center, spread, and overall shape.</p> <p>Classify a distribution displayed on a graph or in a list as uniform, normal, skewed left, or skewed right.</p> <p>Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p> <p>Analyze data represented on a histogram.</p> <p>Summarize a numerical data set by reporting the number of observations.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p> <p>Extend and deepen your understanding by discussing the content with your peers.</p>
U6.11 Measures of Center and Spread Summarize Distributions	6.SP.J.4 6.SP.J.5b 6.SP.J.5c 6.SP.J.5d	<p>Interpret data represented on a line or dot plot.</p> <p>Analyze data represented on a histogram.</p> <p>Summarize a numerical data set by reporting the number of observations.</p> <p>Summarize a numerical data set by describing the nature of the attribute under investigation, including how it was measured and its units of measurement.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p> <p>Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p>
U6.12 Measures of Center and Spread Unit Review		Review what you have learned and prepare for the Unit Test.
U6.13 Measures of Center and Spread Unit Test	6.SP.J.5b 6.SP.J.5c	<p>Describe any overall pattern and any striking deviations from the overall pattern, with reference to the context in which the data were gathered.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p> <p>Determine the weighted average of a data set.</p>
U6.14 Measures of Center and Spread Extended Problems	6.SP.J.4 6.SP.J.5c	<p>Analyze data represented on a box plot.</p> <p>Determine the absolute deviation of a numerical data set.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p>

		<p>Determine the mean absolute deviation of a numerical data set.</p> <p>Determine the mean of a numerical data set.</p> <p>Determine the median of a numerical data set.</p> <p>Interpret the mean absolute deviation of a numerical data set.</p>
<p>U7.1 Project: Data, Data Everywhere Collect and Organize Numeric Data</p>	<p>6.SP.J.4</p> <p>6.SP.J.5c</p> <p>6.SP.J.5a</p>	<p>Analyze data represented on a box plot.</p> <p>Analyze data represented on a line or dot plot.</p> <p>Interpret data represented on a box plot.</p> <p>Represent numerical data on a box plot.</p> <p>Represent numerical data on a line or dot plot.</p> <p>Classify a distribution displayed on a graph or in a list as uniform, normal, skewed left, or skewed right.</p> <p>Describe any overall pattern and any striking deviations from the overall pattern, with reference to the context in which the data were gathered.</p> <p>Determine the absolute deviation of a numerical data set.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p> <p>Determine the mean absolute deviation of a numerical data set.</p> <p>Determine the mean of a numerical data set.</p> <p>Determine the median of a numerical data set.</p> <p>Determine the quartiles of a data set.</p> <p>Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p> <p>Determine the range of a numerical data set.</p>
<p>U7.2 Project: Data, Data Everywhere Find Number Summaries</p>	<p>6.SP.J.4</p> <p>6.SP.J.5c</p> <p>6.SP.J.5a</p>	<p>Analyze data represented on a box plot.</p> <p>Analyze data represented on a line or dot plot.</p> <p>Interpret data represented on a box plot.</p> <p>Represent numerical data on a box plot.</p> <p>Represent numerical data on a line or dot plot.</p> <p>Classify a distribution displayed on a graph or in a list as uniform, normal, skewed left, or skewed right.</p> <p>Describe any overall pattern and any striking deviations from the overall pattern, with reference to the context in which the data were gathered.</p> <p>Determine the absolute deviation of a numerical data set.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p> <p>Determine the mean absolute deviation of a numerical data set.</p>

		<p>Determine the mean of a numerical data set.</p> <p>Determine the median of a numerical data set.</p> <p>Determine the quartiles of a data set.</p> <p>Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p> <p>Determine the range of a numerical data set.</p>
<p>U7.3 Project: Data, Data Everywhere Construct Box Plots</p>	<p>6.SP.J.4</p> <p>6.SP.J.5c</p> <p>6.SP.J.5a</p>	<p>Analyze data represented on a box plot.</p> <p>Analyze data represented on a line or dot plot.</p> <p>Interpret data represented on a box plot.</p> <p>Represent numerical data on a box plot.</p> <p>Represent numerical data on a line or dot plot.</p> <p>Classify a distribution displayed on a graph or in a list as uniform, normal, skewed left, or skewed right.</p> <p>Describe any overall pattern and any striking deviations from the overall pattern, with reference to the context in which the data were gathered.</p> <p>Determine the absolute deviation of a numerical data set.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p> <p>Determine the mean absolute deviation of a numerical data set.</p> <p>Determine the mean of a numerical data set.</p> <p>Determine the median of a numerical data set.</p> <p>Determine the quartiles of a data set.</p> <p>Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p> <p>Determine the range of a numerical data set.</p>
<p>U7.4 Project: Data, Data Everywhere Analyze and Compare Data Sets</p>	<p>6.SP.J.4</p> <p>6.SP.J.5c</p> <p>6.SP.J.5a</p>	<p>Analyze data represented on a box plot.</p> <p>Analyze data represented on a line or dot plot.</p> <p>Interpret data represented on a box plot.</p> <p>Represent numerical data on a box plot.</p> <p>Represent numerical data on a line or dot plot.</p> <p>Classify a distribution displayed on a graph or in a list as uniform, normal, skewed left, or skewed right.</p> <p>Describe any overall pattern and any striking deviations from the overall pattern, with reference to the context in which the data were gathered.</p> <p>Determine the absolute deviation of a numerical data set.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p> <p>Determine the mean absolute deviation of a numerical</p>

		<p>data set.</p> <p>Determine the mean of a numerical data set.</p> <p>Determine the median of a numerical data set.</p> <p>Determine the quartiles of a data set.</p> <p>Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p> <p>Determine the range of a numerical data set.</p>
<p>U7.5 Project: Data, Data Everywhere What Does It All Mean?</p>	<p>6.SP.J.4</p> <p>6.SP.J.5c</p> <p>6.SP.J.5a</p>	<p>Analyze data represented on a box plot.</p> <p>Analyze data represented on a line or dot plot.</p> <p>Interpret data represented on a box plot.</p> <p>Represent numerical data on a box plot.</p> <p>Represent numerical data on a line or dot plot.</p> <p>Classify a distribution displayed on a graph or in a list as uniform, normal, skewed left, or skewed right.</p> <p>Describe any overall pattern and any striking deviations from the overall pattern, with reference to the context in which the data were gathered.</p> <p>Determine the absolute deviation of a numerical data set.</p> <p>Determine the interquartile range of a numerical data set at a 6th grade level.</p> <p>Determine the mean absolute deviation of a numerical data set.</p> <p>Determine the mean of a numerical data set.</p> <p>Determine the median of a numerical data set.</p> <p>Determine the quartiles of a data set.</p> <p>Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.</p> <p>Determine the range of a numerical data set.</p>