East Knox Grade 6th Grade Level Curriculum Map- Mathematics

Time	Topic/Unit	Standards "I Can" Statements	Assessments/ Check for Understanding
1.5-2 weeks	Order of Operations, Exponents, Distributive Property, Greatest Common Factor and Least Common Factor	6.EE.1 -I can evaluate numerical expressions with exponents. 6.NS.4 -I can explain why there is a need for a standard order of operations. -I can evaluate numerical expressions involving several operations, exponents, and grouping symbols. -I can create a factor tree to find the prime factors of a number. -I can write the prime factorization of a number. -I can explain the meaning of factors of a number. -I can use list of factors or prime factors to identify the greatest common factor of numbers. -I can explain the meaning of multiples. -I can use lists of multiples and prime factors to identify the least common multiple of numbers.	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 1 of textbook
1 week	Multiplying and Dividing Fractions	6.NS.1 -I can multiply fractions. 6.NS.2 -I can find products involving mixed numbers. -I can interpret products involving fractions and mixed numbers to solve real-life problems. -I can divide fractions by fractions. -I can divide fractions and whole numbers. -I can divide with mixed numbers. I can evaluate expressions involving mixed numbers using the order of	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 2 of textbook

		operations.	
1.5 weeks	Ch.2 : Adding, Subtracting, Multiplying and Dividing Decimals, Whole number division	6.NS.2 I can explain why it is necessary to 6.NS.3 line up the decimal points when adding and subtracting decimals. - I can add decimals. - I can subtract decimals. - I can evaluate expressions involving addition and subtraction of decimals. - I can multiply decimals by whole numbers. - I can multiply decimals by decimals. - I can evaluate expressions involving multiplication of decimals. - I can use long division to divide whole numbers. - I can interpret quotients in real-life problems. - I can divide decimals by whole numbers. - I can divide decimals by decimals. - I can divide whole numbers by decimals.	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 2 of textbook

3 Weeks	Ch.3 Ratios, Rates and Unit Rate	6.RP.1 -I can write and interpret ratios using appropriate notation and language. 6.RP.3d -I can describe how to determine whether ratios are equivalent. 6.RP.3 -I can name ratios equivalent to a given ratio. 6.RP.2 -I can interpret tape diagrams that represent ratio relationships. 6.RP.3a -I can interpret tape diagrams that represent ratio relationships. -I can draw tape diagrams to model ratio relationships. - I can find the value of one part of a tape diagram. - I can use tape diagrams to solve ratio problems. - I can use various operations to create tables of equivalent ratios. - I can use ratio tables to compare ratios and solve ratio problems. - I can create and plot ordered pairs from a ratio relationship. - I can create graphs to solve ratio problems. - I can create graphs to compare ratios. - I can find unit rates. - I can use unit rates to solve rate problems. - I can use unit rates to compare rates. Can write conversion facts as unit rates. - I can convert units of measure using conversion factors.I - I can convert rates using conversion factors. - I can convert between customary units. - I can convert between metric units.	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Smart Buying activity 3.2 Puzzle Time Chapter 3 of textbook

1.5 - 2 weeks	Converting Between Fractions, Percents, Decimals	6.RP.3c -I can write percents as fractions -I can write equivalent fractions with denominators of 100 -I can write fractions as percents -I can write percents as decimals -I can write decimals as percents -I can rewrite a group of fractions, decimals, and percents using the same presentation. -I can explain how to compare fractions, decimals, and percents. -I can order fractions, decimals, and percents from least to greatest. -I can find percents of numbers. -I can find the whole given a part and the percent.	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 4 of Textbook Finding Good Deals Activity

2 weeks	Algebraic Expressions and Properties	6.EE.1 6.EE.2a, b, c 6.EE.3 6.EE.4 -I can identify parts of an algebraic expression. -I can evaluate algebraic expressions with one or more variables. -I can evaluate algebraic expressions with one or more operations. -I can write numerical expressions. -I can write algebraic expressions I can write and evaluate algebraic expressions that represent real-life problems. -I can explain the meaning of equivalent expressions. -I can use properties of addition to generate equivalent expressions. -I can use properties of multiplication to generate equivalent expressions. -I can use the Distributive Property to simplify algebraic expressions. -I can use the Distributive Property to combine like terms. -I can identify the greatest common factor of terms including variables. -I can use the Distributive Property to factor algebraic expressions.	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 5 of Textbook

2 Weeks	Algebraic Equations	6.EE.5 -I can write word sentences as 6.EE.6 equations. 6.EE.7 -I can create equations to represent real-life problems. -I can determine whether a value is a solution of an equation. -I can apply the addition and subtraction properties of equality to generate equivalent equations. -I can solve equations using addition or subtraction. I can create equations involving addition or subtraction to solve real-life problems. -I can apply the multiplication and division properties of equality to generate equivalent equations. -I can solve equations using multiplication or division. -I can create equations involving multiplication or division to solve real-life problems. -I can determine whether an ordered pair is a solution of an equation in two variables. -I can distinguish between independent and dependent variables. -I can write and graph an equation in two variables.	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 6 of Textbook
3 weeks	Area, Surface Area, and Volume	6.G.1 -I can explain how the area of a 6.G.2 rectangle is used to find the area of a 6.G.3 parallelogram. 6.G.4 -I can use the area of a parallelogram and one of its dimensions to find the other dimension. -I can use the base and the height of	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 7 of Textbook

		a triangle to find its area. -I can use the area of a triangle and one of its dimensions to find the other dimension. -I can use decomposition to find the area of a figure. -I can use the bases and the height of a trapezoid to find its area. -I can draw nets to represent prisms. -I can use nets to find surface areas of prisms. -I can use a formula to find the surface area of a cube. -I can draw nets to represent pyramids. I can use nets to find surface areas of pyramids. -I can use a formula to find the volume of a rectangular prism. -I can use the volume of a rectangular prism and two of its dimensions to find the other dimension.	

1.5 - 2 weeks	Integers, Number Lines, and the Coordinate Plane	6.NS.5 6.NS.6a, b,c 6.NS.7a, b,c,d 6.NS.8 -I can write integers to represent quantities in real life. -I can graph integers on a number line. -I can find the opposite of an integer. -I can apply integers to model real-life problems. -I can explain how to determine which of two integers is greater. -I can order a set of integers from least to greatest. -I can graph rational numbers on a number line. -I can determine which of two rational numbers is greater. -I can order a set of rational numbers from least to greatest. -I can find the absolute value of a number. -I can make comparisons that involve absolute values of numbers. -I can identify ordered pairs in a coordinate plane. -I can plot ordered pairs in a coordinate plane and describe their locations. -I can reflect points in the x-axis, y-axis, or both axes. -I can apply plotting points in all four quadrants to solve real-life problems. -I can draw polygons in the coordinate plane. -I can find distances between points in the coordinate plane with the same x-coordinates or the same y-coordinates. -I can write word sentences as inequalities. I can determine whether a value is a solution of an inequality.	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 8 of Textbook

		-I can graph the solutions of inequalities. -I can solve inequalities using addition, subtraction, multiplication and division.	

2 weeks	Mean, Median, Mode, Range, Interquartile Range	6.SP.1 -I can recognize questions that 6.SP.3,5b anticipate a variety of answers. 6.SP.3,5d -I can construct and interpret a dot plot. -I can use data to answer a statistical question. -I can explain how the mean summarizes a data set with a single number. -I can find the mean of a data set. -I can use the mean of a data set to answer a statistical question. -I can explain how the median and mode summarize a data set with a single number. -I can find the median and mode of a data set. -I can explain how changes to a data set affect the measures of center -I can find the range and interquartile range of a data set.	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 9 of Textbook
2 weeks	Stem and Leaf Plots, Histograms, Shapes of Distributions, Choosing appropriate measures, Box and Whisker Plots	6.SP.4,5a -I can make and interpret a stem and 6.SP.2,5c leaf plot. 6.SP.2,5 -I can make and interpret a histogram. -I can use data displays to describe shapes of distributions. -I can use the shape of a distribution to determine which measure of center best describes the data. -I can find the five number summary of a data	Test Quiz Homework Class Participation Questioning Entry Ticket Exit Ticket Chapter 10 of Textbook

		set. -I can make a box and whisker plot.	