

Ganado Unified School District #20

(Math/7th Grade)

PACING Guide SY 2018-2019

Resources	AZ College and Career Readiness Standard	Essential Question (HESS Matrix)	Learning Goal	Vocabulary Content/Academic
First Quarter				
<p>Math Accelerated - A Pre-Algebra Program MC Graw Hill Education By: Carter, Cuevas, Et.Al</p> <p>Math-Aids Online:http://www.math.aids.com/</p> <p>Assessment Technology Incorporated Online:http://www.ati-online.com/</p> <p>Kahoot.com</p>	<p>1. Pretest: Adding & subtracting with decimals and fractions. 2. Pretest: Multiplying & dividing with decimals and fractions.</p> <p>7.NS.A.2d. Convert a rational number to decimal form using long division; know that the decimal form of a rational number terminates in 0's or eventually repeats.</p> <p>7.RP.A.3. Use proportional relationships to solve multi-step ratio and percent problems (e.g., simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error).</p> <p>7.RP.A.1. Compute unit rates associated with ratios involving both simple and complex fractions, including ratios of quantities measured in like or different units.</p>	<p>How are fraction, decimal, and percent values related to one another?</p> <p>How are percent values use in real-world applications?</p>	<p>How are fraction, decimal, and percent values related to one another?</p> <p>How are percent values use in real-world applications?</p> <p>Students will estimate a percent of a natural number using the percent equation.</p> <p>Students will find calculate sales tax and discounts of products.</p> <p>Students will evaluate finance applications using the simple interest formula</p>	<ol style="list-style-type: none"> 1) Fraction 2) Decimal 3) Terminating decimal 4) Repeating decimal 5) Equivalent fractions 6) Percent 7) Percent of change 8) Percent of increase 9) Percent of decrease 10)Principal 11)Interest 12)Interest rate 13)Simple interest 14)Commission 15)Gratuities 16)Markups 17)Markdowns 18)Decrease 19)Increase 20)ratio

<p>Math Build to the Common Core (Workbook) MC Graw Hill Education By: Carter, Cuevas, Et.Al</p> <p>Kutasoftware Online:http://www.kutasoftware.com/</p>	<p>Pretest: Adding and Subtracting Integers.</p> <p>Pretest: Multiplying and Dividing Integers.</p> <p>7.NS.A.1b. Understand $p + q$ as the number located a distance q from p, in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world context.</p> <p>7.NS.A.3. Solve mathematical problems and problems in real-world context involving the four operations with rational numbers. Computations with rational numbers extend the rules for manipulating fractions to complex fractions where $a/b \div c/d$ when $a, b, c,$ and d are all integers and $b, c,$ and $d \neq 0$.</p> <p>7.EE. B.3. Solve multi-step mathematical problems and problems in real-world context posed with positive and negative rational numbers in any form. Convert between forms as appropriate and assess the reasonableness of answers. <i>For example, If a woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or \$2.50, for a new salary of \$27.50 per hour.</i></p>	<p>How are zero, positive, and negative numbers aligned?</p> <p>How are both positive and negative numbers calculated?</p>	<p>Students will add integers with same and different signs.</p> <p>Students will subtract integers with same and different signs.</p> <p>Students will model adding integers subtracting integers on the number line.</p>	<ol style="list-style-type: none"> 1. Absolute value 2. Additive inverse 3. Integers 4. Positive number 5. Negative number 6. Zero 7. Opposites 8. Inverse 9. Rational numbers 10. Sum 11. Difference 12. Product 13. Quotient 14. Whole number 15. Natural number 16. Fraction 17. Numerator 18. Denominator 19. Estimate 20. Complex fraction 21. Convert 22. Distributive property
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	<p>7.NS.A.1c. Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world context.</p> <p>7.NS.A.2a. Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world context.</p> <p>7.NS.A.2b. Understand that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real-world context.</p> <p>7.NS.A.2c. Apply properties of operations as strategies to multiply and divide rational numbers.</p> <p>7.EE.A.2. Rewrite an expression in different forms, and understand the relationship between the different forms and their meanings in a problem context. <i>For example, $a + 0.05a = 1.05a$ means that "increase by 5%" is the same as "multiply by 1.05."</i></p>			
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<p>Math Accelerated - A Pre-Algebra Program MC Graw Hill Education By: Carter, Cuevas, Et.Al</p> <p>Math-Aids Online:http://www.math.aids.com/</p> <p>Assessment Technology Incorporated Online:http://www.ati-online.com/</p> <p>Math Build to the Common Core (Workbook) MC Graw Hill Education By: Carter, Cuevas, Et.Al</p> <p>Kutasoftware Online:http://www.kutasoftware.com/</p>	<p>7.NS.A1d. Apply properties of operations as an strategies to add and subtract rational numbers.</p> <p>7.NS.A.2c. Apply properties of operations as strategies to multiply and divide rational numbers.</p> <p>7.EE.A.1. Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.</p> <p>7.EE.A.2. Understand that rewriting an expression in different forms in a problem context can shed light on the problem end how the quantities in it are related. <i>For example, $a + 0.05a = 1.05a$ means that "incre by 5%" is the same as "multiply by 1.05."</i></p> <p>7.EE.B.4a. Solve word problems leading to equations of the form $px+q = r$ and $p(x+q) = r$, where $p, q,$ and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach.</p>	<p>How are numerical and algebraic expressions evaluated with integers?</p> <p>How are word problems presented as an expressions?</p> <p>How many ways can an expression be presented?</p> <p>What does a variable represent?</p> <p>How can word problems be solved using expressions?</p>	<p>Students will evaluate numerical expressions using the rules of order of operations.</p> <p>Students will evaluate algebraic expressions using the substitution property.</p> <p>Students will write algebraic expression by translating verbal expressions.</p>	<ol style="list-style-type: none"> 1) Numerical expressions 2) Order of Operations 3) Algebraic expressions 4) Term 5) Variable 6) Constant term 7) Coefficient term 8) Like terms 9) Distributive property 10) Evaluate 11) Verbal Phrase 12) Sum 13) More than 14) Increased by 15) Difference 16) Less than 17) Subtracted from 18) Decreased by 19) Product 20) Multiplied by 21) Quotient 22) Divided by

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numbers by describing real-world context.

7.EE.B.4b. Solve word problems leading to inequalities of the form $px+q > r$ or $px+q < r$, where p , q , and r are rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.

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Second Quarter				
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Kutasoftware Online: http://www.kutasoftware.com/	7.G.A.1. Solve problems involving scale drawings of geometric figures, such as computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.			
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<p>Kutasoftware Online:http://www.kutasoftware.com/</p>	<p>7.RP.A.2d. Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where r is the unit rate.</p>			
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<p>Third Quarter</p>				

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	Standard	(HESS Matrix)		Content/Academic
<p>Math Accelerated - A Pre-Algebra Program MC Graw Hill Education By: Carter, Cuevas, Et.Al</p> <p>Math-Aids Online:http://www.math.aids.com/</p> <p>Assessment Technology Incorporated Online:http://www.ati-online.com/</p> <p>Math Build to the Common Core (Workbook) MC Graw Hill Education By: Carter, Cuevas, Et.Al</p> <p>Kutasoftware Online:http://www.kutasoftware.com/</p>	<p>a. Pretest: Finding the circumference and area of a circle</p> <p>b. Pretest: Finding the volume and surface area of a 3 dimensional objects.</p> <p>7.G.B.4. Understand and use the formulas for the area and circumference of a circle to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.</p> <p>7.G.B.6. Solve mathematical problems and problems in a real-world context involving area of two-dimensional objects composed of triangles, quadrilaterals, and other polygons. Solve mathematical problems and problems in real-world context involving volume and surface area of three-dimensional objects composed of cubes and right prisms.</p> <p>7.EE.A.2. Solve multi-step mathematical problems and problems in real-world context posed with positive and negative rational numbers in any form. Convert between forms as appropriate and assess the reasonableness of answers. <i>For example, If a woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or \$2.50, for a new salary of \$27.50 per hour.</i></p>	<p>How are the outside and inside measurements of a circle found ?</p> <p>Why is the area for basic geometric shapes important?</p> <p>What is a :</p> <p>a. Cylinder b. Prism c. Triangular prism d. Rectangular prism e. Cone f. Sphere g. Rectangular pyramid h. Triangular pyramid</p> <p>How can we find the volume and surface area of a:</p> <p>a. Cylinder b. Prism c. Triangular prism d. Rectangular prism e. Cone f. Sphere g. Rectangular pyramid h. Triangular pyramid</p>	<p>Students will find the circumference and areas of a circle.</p> <p>Student will find the area and perimeter of two dimensional shapes.</p> <p>Students will find the volume of three dimensional objects.</p>	<ol style="list-style-type: none"> 1. Radius 2. Diameter 3. Pi 4. Circumference 5. Area 6. Length 7. Base 8. Area 9. Cylinder 10. Prism 11. Volume 12. Surface area 13. Face 14. Lateral area 15. Lateral face 16. Net 17. vertex

	Describe the two-dimensional figures that result from slicing three-dimensional figures.			
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Math Accelerated - A Pre-Algebra Program MC Graw Hill Education By: Carter, Cuevas, Et.Al Math-Aids Online: http://www.math.aids.com/ Assessment Technology Incorporated Online: http://www.ati-online.com/	Review Assessment: Writing and Solving Expressions and Equations 7.EE.A.1. Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. 7EE.B.4. a. Solve word problems leading to equations of the form $px+q = r$ and $p(x+q) = r$, where p , q , and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. 7.EE.B.4b. Solve word problems leading to inequalities of the form $px+q > r$ or $px+q < r$, where p , q , and r are rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem.	How can one-step and two-step equations be solved? How can word problems be solved using equation?	Students will evaluate one-step equations using inverse operations. Students will evaluate two-step equations.	1. Equation 2. Expressions 3. Term 4. Variable 5. Constant term 6. Coefficient 7. Like terms 8. Distributive property 9. Evaluate

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Fourth Quarter				
<p>Math Accelerated - A Pre-Algebra Program MC Graw Hill Education By: Carter, Cuevas, Et.Al</p> <p>Math-Aids Online:http://www.math.aids.com/</p> <p>Assessment Technology Incorporated Online:http://www.ati-online.com/</p> <p>Math Build to the Common Core (Workbook) MC Graw Hill Education By: Carter, Cuevas, Et.Al</p>	<p>a. Pretest: Constructing Box-and-Whisker Plots b. Pretest: Interpreting Box-and-Whisker Plots</p> <p>7.SP.B.4. Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. <i>For example, decide whether the words in a chapter of a seventh-grade science book are generally longer than the words in a chapter of a fourth grade Science book.</i></p> <p>7.SP.A.2. Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions. <i>For example, estimate the mean word length in a book by randomly sampling words from the book; predict the winner of a school election based on randomly sampled survey data. Gauge</i></p>	<p>How are box-and-whisker plots created ?</p> <p>How can box-and-whisker plots be useful in real world application?</p>	<p>Students will analyze and interpret box-and-whisker plots.</p> <p>Students will compare and analyze sampling methods.</p>	<ol style="list-style-type: none"> 1. Mean 2. Median 3. Mode 4. Range 5. Box-and-whisker plot 6. Lower quartile 7. Upper quartile 8. Interquartile range

<p>Kutasoftware Online:http://www.kutasoftware.com/</p>	<p><i>how far off the estimate or prediction might be.</i></p>			
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	<p>Pretest: Draw inference about population</p> <p>7.SP.A.1. Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.</p>	<p>How can we tell recorded data is useful?</p>	<p>Students will draw inferences about a population with random sampling.</p>	<ol style="list-style-type: none"> 1. Population 2. Sample 3. Random sampling 4. Biased sampling 5. Convenience sampling.
<p>Math Accelerated - A Pre-Algebra Program MC Graw Hill Education By: Carter, Cuevas, Et.Al</p> <p>Math-Aids Online:http://www.math.aids.com/</p> <p>Assessment</p>	<p>Pretest: Finding Probability</p> <p>7.SP.C.5. Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger number indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.</p>	<p>Why is probability important ?</p> <p>How is probability used in everyday activities?</p> <p>How can data with probability represented?</p>	<p>Students will find experiments mental and theoretical probabilities with independent and dependent variables.</p> <p>Students will use probability to predict events.</p>	<ol style="list-style-type: none"> 1. Probability 2. Experiment 3. Trial 4. Event 5. Simple event 6. Compound event 7. Experimental probability 8. Sample space 9. Theoretical probability 10. Fair 11. Prediction

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	7.SP.C.7a Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events. <i>For example, if a student is selected at random from a class, find the probability that Jane will be selected and the probability that a girl will be selected.</i>			
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