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Month	Content	Skills
September	<p>A. PROBLEM SOLVING</p> <ol style="list-style-type: none"> 1. Problem Solving <p>B. NUMBER SENSE</p> <ol style="list-style-type: none"> 1. Place Value 2. Exponents 3. Order of Operations 4. Properties 5. Sequence/Patterns 6. Algebra 	<p>A. PROBLEM SOLVING</p> <ol style="list-style-type: none"> 1. Identify steps and key words to help problem solve.  <p>B. NUMBER SENSE</p> <ol style="list-style-type: none"> 1. Compare and order whole numbers up to billions using place value. Represent numbers in standard, word, and expanded form. Estimate with whole numbers. Round whole numbers through the hundred thousands place.  2. Represent numbers in exponential form.  3. Apply the order of operations to calculate expressions.  4. Use number properties to compute mentally.  5. Identify patterns and recognize, describe, and extend patterns in sequences, both numerical and pictorial.  6. Identify and evaluate expressions. Translate between words and math. Write expressions for tables and sequences. Determine whether a number is a solution to an equation. Determine the missing value to solve one-step equations involving addition, subtraction, multiplication, and division. 
October	<p>A. DECIMALS</p> <ol style="list-style-type: none"> 1. Place value 2. Estimation and rounding 3. Scientific Notation 4. Equations <p>B. NUMBER THEORY</p> <ol style="list-style-type: none"> 1. Divisibility 2. Prime/Composite Numbers 3. Factors 	<p>A. DECIMALS</p> <ol style="list-style-type: none"> 1. Write, compare, and order decimals using place value and number lines. Identify and write decimals in word, standard, and expanded form.  2. Estimate and round decimals to a given place value prior to adding, subtracting, dividing, and multiplying.  3. Write very large numbers in scientific notation form, and then represent scientific notation in standard form.  4. Determine the missing value to solve one-step equations involving the addition, subtraction, multiplication, and division of decimals.  <p>B. NUMBER THEORY</p>

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		<ol style="list-style-type: none"> 1. Apply divisibility rules to determine whether a given number is divisible by another whole number without a calculator.  2. Identify and prove whether a given number is prime or composite.  3. a. List all the factors of a given number using factor pairs and find the greatest common factor of 2 or more numbers. <ol style="list-style-type: none"> b. Determine the prime factorization of a given number using exponential notation. 
November	<p>A. DECIMALS AND FRACTIONS</p> <ol style="list-style-type: none"> 1. Decimal and fraction representations 2. Compare and Order Decimals & Fractions 3. Equivalent Fractions 4. Mixed Numbers/Improper Fractions 5. Comparing fractions 6. Like Denominators 7. Estimation <p>B. FRACTION OPERATIONS</p> <ol style="list-style-type: none"> 1. Multiples <p>C. COLLECT AND DISPLAY DATA</p> <ol style="list-style-type: none"> 1. Organizing Data 2. Displaying and Interpreting Data 	<p>A. DECIMAL AND FRACTIONS</p> <ol style="list-style-type: none"> 1. a. Represent decimals and fractions (and mixed numbers) on a decimal grid.  b. Locate decimals, fractions, and mixed numbers on a number line.  c. Write repeating decimals using a repeating decimals sign.  d. Convert between decimals and fractions (and mixed numbers).  2. Determine whether fractions, decimals, and/or mixed numbers are greater than, less than, or equal to each other.  3. a. Write a fraction equivalent to a given fraction in pictorial and number form. <ol style="list-style-type: none"> b. Write fractions in lowest terms. c. Find the missing number that makes the two given fractions equivalent.  4. Convert between mixed numbers and improper fractions.  5. Order fractions with like and unlike denominators in order from least to greatest or greatest to least by using equivalent fractions.  6. Add and subtract fractions with the same denominator.  7. Estimate sums and differences of fractions and mixed numbers.  <p>B. MULTIPLES</p> <ol style="list-style-type: none"> 1. Determine the least common multiple of a group of numbers.  <p>C. COLLECT AND DISPLAY DATA</p> <ol style="list-style-type: none"> 1. Collect and organize data using tables. Determine the mean, median, mode, and range of a set of data.  2. Display and analyze the data in graphs and tables. Graph ordered pairs on a coordinate grid. 
December	<p>A. RATIOS AND PROPORTIONS</p> <ol style="list-style-type: none"> 1. Ratios and Rates 2. Unit Rates 3. Proportions 4. Similar Figures & Indirect Measuring 5. Scale Drawings 	<p>A. RATIOS AND PROPORTIONS</p> <ol style="list-style-type: none"> 1. Write ratios and rates using information given via pictures, words, and tables.  2. Compare the value of two or more ratios by determining the unit rate of a ratio. 

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	6. Percents, Decimals, and Fractions	3. Write and solve proportions using equations. Determine if two ratios are proportionate.  4. Use ratios and proportions to identify similar figures and to find the missing value to a corresponding side.  5. Read and use map scales and scale drawings.  6. a. Read, write, represent, and model percents.  b. Write percents as decimals and fractions and vice versa.  c. Determine the "% of " a number to determine the discount, tip, and sales tax of a given amount. 
January	A. PROBABILITY 1. Understanding experimental and theoretical probability 2. Using Probability B. GEOMETRY 1. Lines and Angles 2. Polygons 3. Polygon Relationships	A. PROBABILITY 1. a. Find the experimental probability of an event. b. Estimate the likelihood of an event and write and compare probabilities. c. Determine if events are equally likely. d. Use a number cube, spinners, and coins to simulate probability events. e. Find the theoretical probability and complement of an event. f. Make an organized list to find all possible outcomes. g. Express probability as a ratio and as a percentage.  2. a. List all the outcomes and find the theoretical probability of a compound event. b. Apply counting methods while exploring permutations and combinations. c. Use probability to predict events. d. Find the probability of independent and dependent events.  B. GEOMETRY 1. a. Describe figures by using the terms of geometry. b. Name, draw, measure, and classify angles. c. Identify and use angle relationships to find the measure of a missing angle. d. Classify the different types of lines.  2. a. Classify triangles by the length of their sides and by the measure of their interior angles. b. Identify, classify, and compare quadrilaterals. c. Identify regular and not regular polygons, and find the angle measures of regular polygons. d. recognize, describe, and extend geometric patterns.  3. a. Identify congruent figures and use congruence to solve problems. b. Use translations, reflections, and rotations to transform geometric shapes. c. Identify line symmetry.

Month	Content	Skills
		d. Tessellate a plane with shapes 
February	<p>A. MEASUREMENT AND GEOMETRY</p> <ol style="list-style-type: none"> 1. Customary and Metric 2. Geometric Figures <p>B. AREA AND VOLUME</p> <ol style="list-style-type: none"> 1. Area of triangles, quads, composite figures, and circles 2. Volume and Surface Area 	<p>A. MEASUREMENT AND GEOMETRY</p> <ol style="list-style-type: none"> 1. a. Understand and select appropriate customary and metric units of measure. <ol style="list-style-type: none"> b. Convert customary and metric units of measure. c. Find measures of time and temperature.  2. a. Find angle measures in polygons. <ol style="list-style-type: none"> b. Find the perimeter and missing side lengths of a polygon. c. Identify the parts of a circle and find the circumference of a circle  <p>B. AREA AND VOLUME</p> <ol style="list-style-type: none"> 1. a. Estimate the area of irregular figures and find the area of rectangles and parallelograms. <ol style="list-style-type: none"> b. Find the area of triangles and trapezoids. c. Find the area of a circle  2. a. Use drawings of solid figures to study different views. <ol style="list-style-type: none"> b. Name 3-dimensional figures. c. Estimate and find the volumes of prisms, triangular prisms, and cylinders. d. Create nets and form them into 3-dimensional figures. e. Find the surface area of prisms, pyramids, and cylinders 
March	A. ISAT REVIEW AND TESTING	A. ISAT REVIEW AND TESTING
April	<p>A. FRACTION OPERATIONS</p> <ol style="list-style-type: none"> 1. Adding and subtracting 2. Regrouping 3. Equations 4. Multiplying 5. Dividing 6. Equations 	<p>A. FRACTION OPERATIONS</p> <ol style="list-style-type: none"> 1. a. Add and subtract fractions and mixed numbers with unlike denominators. <ol style="list-style-type: none"> b. Change improper fractions into mixed numbers. c. Represent fractions in lowest terms  2. Regroup mixed numbers when subtraction calls for it.  3. Solve equations by adding and subtracting fractions.  4. Multiply fractions and mixed numbers  5. Divide fractions and mixed numbers; and determine the reciprocal of a fraction, whole number or mixed number.  6. Solve equations by multiplying and dividing fractions. 
May	<p>A. INTEGERS, GRAPHS, AND FUNCTIONS</p> <ol style="list-style-type: none"> 1. Understanding Integers 2. Integer Operations 	<p>A. INTEGERS, GRAPHS, AND FUNCTIONS</p> <ol style="list-style-type: none"> 1. a. Identify, graph, compare and order integers. <ol style="list-style-type: none"> b. Locate and graph points on a 4-quadrant coordinate plane.  2. Add, subtract, multiply, and divide integers 

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	3. Equations and Functions	3. a. Solve equations containing integers. b. Use data in a table to write an equation for a function, and use the equation to find a missing value. c. Represent linear functions using ordered pairs and graphs 