

21st Century Learning Expectations: Read, write, and communicate effectively; work independently and collaboratively; identify, analyze and solve problems; gather, evaluate, and apply information from a variety of sources									
September		October		November		December		January	
Content	The Number System Algebraic Expressions and Integers	The Number System Expressions and Equations	Estimation Rational Numbers Benchmark	Rational Numbers Equations	Ratio and Proportional Relationships	Content			
Standards	7.NS.1, 7.NS.2, 7.NS.3, 7.EE.4	7.EE.1, 7.EE.2, 7.EE.3	7.NS.2, 7.NS.2	7.NS.2, 7.NS.3, 7.EE.2	7.RP.1, 7.RP.2, 7.RP.3, 7.G.1	Standards			
Skills	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Alternate between word phrases and variable expressions. - Perform all four basic operations with integers. - Understand and apply order of operations. - Find opposites and absolute values. - Name and graph coordinates in the coordinate plane. - Apply integer operations to real world problems. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Use properties of operations to generate equivalent expressions. - Use properties to solve word problems. - Solve one step equations with opposite operations. - Write, solve, and graph inequalities. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Understand and apply appropriate estimation strategies. - Know and understand mean absolute deviation and interquartile range. - Identify and graph rational numbers. - Perform the four basic operations with fractions. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Perform the four basic operations with fractions. (continued) - Solve fractional equations. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Use proportions to solve problems. - Solve problems with similar figures. - Write and solve percent equations. - Apply percents to real world problems. 	Skills			
Assessment	White boards Pair share Group work Quiz corrections Projects- Coordinate Plane Project Worksheets 2-4 quizzes per chapter Chapter test	White boards Pair share Group work Quiz corrections Projects – Order of Operations (calendar project) Worksheets 2-4 quizzes per chapter Chapter test	White boards Pair share Group work Quiz corrections Projects Worksheets 2-4 quizzes per chapter Chapter test	White boards Pair share Group work Quiz corrections Projects Worksheets 2-4 quizzes per chapter Chapter test	White boards Pair share Group work Quiz corrections Projects – Scale Drawing Project Worksheets 2-4 quizzes per chapter Chapter test	Assessment			
Resources	Websites Khan Academy Kuta Software Textbook chap 1	Websites Khan Academy Kuta Software Text chaps 2&3	Websites Khan Academy Kuta Software Text chaps 4&5	websites Khan Academy Kuta Software Text chapter 5	Websites Khan Academy Kuta Software Text chap 6	Resources			

<p>Essential Questions</p>	<p>Explain how to use variables and variable expressions? How do you perform operations with integers?</p>	<p>Explain how to use the distributive property. How do you write and solve equations and inequalities? How do you graph the solution for equations and inequalities?</p>	<p>Explain what a rational number is and how to convert it to a decimal. How do you solve equations with fractions using all four basic operations?</p>	<p>How do you find and use ratios and unit rates? How do you write and solve proportions? How do you find and write percents? How do you find markups, discounts, and tax?</p>	<p>How do you solve multi-step equations? Explain how to write, solve, and graph two-step inequalities. How do you find simple interest?</p>	<p>Essential Questions</p>
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February		March	April	May	June	
Content	Equations Benchmark after Chapter 6 & 7	Equations Geometry Chapter 7 & 9	Geometry Chapter 10	Statistics and Probability Chapter 12 & 13	Graphing Chapter 8	Content
Standards	7.EE.3, 7.EE.4	7.EE.4, 7.G.1, 7.G.2, 7.G.3	7.G.4, 7.G.5	7.SP.1, 7.SP.2, 7.SP.3, 7.SP.4 7.SP.5, 7.SP.6	8.F.1, 8.F.2, 8.F.3	Standards
Skills	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Solve one step equations and two-step equations. - Solve multi-step equations, including fractions and decimals. - Write an equation to solve a problem. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Solve a formula for a given variable. - Compute simple interest. - Draw, construct, and describe geometrical figures and describe the relationships between them. - Solve real-world and mathematical problems involving angle measure, area, surface area, and volume. - Recognize angle relationships. - Draw geometric shapes with given conditions. - Understand the results of slicing 3-D figures. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Solve real world problems involving geometric concepts, including area, surface area, and volume with all geometric shapes. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Use random sampling to draw inferences about a population. - Draw informal comparative inferences about two populations. - Use simulations to find probability. - Investigate chance processes and develop, use, and evaluate probability models. - Describe number patterns with arithmetic and geometric sequences. 	<p>Students will be able to:</p> <ul style="list-style-type: none"> - Graph linear equations with two variables. - Find the slope of a line. - Use slope to graph linear equations. - Write a function rule. 	Skills
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Resources	Websites Khan Academy Kuta Software Text chap 6&7	Websites Khan Academy Kuta Software Text chap 7&9	Websites Khan Academy Kuta Software Text chap 10	Websites Khan Academy Kuta Software Text chap 12&13	Websites Khan Academy Kuta Software Text chap 8	Resources
Essential Questions	How do you classify geometric figures? How do you use properties of figures to solve problems? How do you find the circumference of a circle?	How do you find the area of polygons? How do you find surface area and volume of space figures?	How do you find theoretical probability and experimental probability? Explain how to solve problems by doing simulations. How do you choose a sample for a survey and make estimates about populations?	How does a chart or graph help you better understand data instead of just a list? When is a box and whisker plot best to represent data?	What is the difference between a relation and a function?	Essential