

Subject: Math 21-22 Scope and Sequence (What we will cover this school year)

Notes:

Add topics to each month for your grade levels

Font: Calibri

Size: 12pt

	September	October	November	December	January	February	March	April	May	June
6		<p><b>Book 1: Decimals and Fractions</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Round, add, subtract place value.</li> <li>- Multiply and Divide 2 digit numbers.</li> <li>- Compare, simplify, find equivalent fractions.</li> <li>- Measure in centimeters and inches.</li> <li>- Find area and perimeter with fractions using models.</li> <li>- Estimate and round products and quotients.</li> <li>- Build nets to find area and volume.</li> </ul>				<p><b>Book 2: Introductory Algebra</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Use the four operations, powers and exponents, grouping.</li> <li>- Combine variables in expressions, evaluate formulas. Use the distributive property.</li> <li>- Solve equations using mental math, solve mixed one and two-step equations.</li> <li>- Understand, compare integers. Use quadrilaterals on the coordinate plane. Write function rules for linear functions.</li> </ul>			<p><b>Book 3: Ratios Rates and Statistics</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Create ratios and sequences. Convert customary and metric units.</li> <li>- Recognize rates and unit rates. Problem solve motion rates.</li> <li>- Find percentages of numbers. Use experimental, theoretical, and geometric probability.</li> <li>- Find measures of center, create dot plots, histograms, and analyze statistics.</li> </ul>	
7		<p><b>Book 1: Rational Numbers and Equations</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Use all operations with mixed numbers and fractions and decimals.</li> <li>- Use all operations with positive and negative integers. Understand the order of operations with powers and exponents.</li> <li>- Estimate rational numbers with all operations.</li> <li>- Solve multi-step equations, use distributive property, solve for a variable.</li> </ul>			<p><b>Book 2: Proportions and Probability</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Find ratios and rates, and use conversions.</li> <li>- Write and solve proportions, seen through similar and congruent figures.</li> <li>- Find percents through proportions and equations. Find percent of change.</li> <li>- Use probability to predict. Find compound probability using multiplication. Make inferences.</li> <li>- Use the coordinate plane, make sense of graphs, find and recognize direct variation.</li> </ul>			<p><b>Book 3: Shapes and Angles</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Measure, classify, and name angles.</li> <li>- Find the area of two-dimensional figures like circles.</li> <li>- Find surface area of 3-dimensional figures. Draw solids.</li> </ul>		
8		<p><b>Book 1: Linear Equations</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Accurately use the order of operations within expressions. Solve multi-step equations. Use the distributive property.</li> <li>- Find rate of change in recursive routines. Create/find equations/slope from recursive routines and input-output tables. Understand and use the slope formula.</li> <li>- Graph using slope-intercept form. Write and graph linear equations and non-linear functions.</li> <li>- Solve systems by graphing, using tables, substitution, elimination. Choose best method to solve. Convert repeating decimals to fractions.</li> <li>- Recognize scatter plots and their correlation. Use line of best fit. Create 5-number summaries. Show Q-lines with lines of best fit. Finding relationships between bivariate data.</li> </ul>			<p><b>Book 3: Geometry</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Identify different types of angles and triangles and their relationship.</li> <li>- Break apart perfect squares, estimate square roots, apply the pythagorean theorem.</li> <li>- Use transformations on a coordinate plane. Create and decipher rules for transformations.</li> <li>- Use multiplication and division properties of exponents, scientific notation, and volume of 3D shapes.</li> </ul>			<p><b>Book 3: Functions and Data</b> Students will be able to:</p> <ul style="list-style-type: none"> <li>- Evaluate functions using tables, graphs and equations. Recognize function transformations.</li> <li>- Write and graph recursive routines, exponential functions.</li> <li>- Identify and convert quadratic functions in vertex, general, factored form. Quadratic formula.</li> <li>- Use measures of center to analyze data. Recognize outliers.</li> <li>- Create data displays through dot plots, histograms, box-and-whisker plots.</li> </ul>		