



## 5/6 Compacted Math Scope & Sequence

Grading Period	Unit Title	Learning Targets
<b>Throughout the School Year</b>		<ul style="list-style-type: none"> <li>● Apply mathematics to problems arising in everyday life, society, and the workplace</li> <li>● Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution</li> <li>● Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems</li> <li>● Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate</li> <li>● Create and use representations to organize, record, and communicate mathematical ideas</li> <li>● Analyze mathematical relationships to connect and communicate mathematical ideas</li> <li>● Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication</li> </ul>
<b>First Grading Period</b>	Place Value and Rounding	<ul style="list-style-type: none"> <li>*Place value of decimals through thousandths</li> <li>*Round decimals through hundredths</li> <li>*Compare and order decimals through the thousandths</li> <li>*Estimate using the 4 basic operations</li> </ul>
	Operations	<ul style="list-style-type: none"> <li>*Perform all operations on whole numbers, fractions, decimals</li> <li>*Identify prime and composite numbers</li> <li>*Compare and order fractions</li> <li>*Generate equivalent forms of fractions and decimals</li> </ul>

<b>Second Grading Period</b>	Integers and Absolute Value	<ul style="list-style-type: none"> <li>*Relate integers to the real-world</li> <li>*Compare and order integers</li> <li>*Fluently add, subtract, multiply and divide integers</li> </ul>
	Expressions and Equations	<ul style="list-style-type: none"> <li>*Simplify numerical expression with Order of Operations</li> <li>*Generate equivalent expressions using exponents, prime factorization and order of operations</li> </ul>
	Algebraic Functions	<ul style="list-style-type: none"> <li>*Write one-variable, one step equations</li> <li>*Create equations or inequalities that correspond to real-world problems</li> </ul>
<b>Third Grading Period</b>	Data Collection & Representation	<ul style="list-style-type: none"> <li>*Represent numeric data graphically, including dot plots, stem and leaf plots, histograms and box &amp; whisker plots</li> <li>*Use the graphical representation of numeric data to describe the center, spread, and shape of the data distribution</li> <li>*Distinguish between situations that yield data with and without variability</li> </ul>
	Measurement and Geometry	<ul style="list-style-type: none"> <li>*Represent and solve problems related to perimeter and/or area, and volume</li> <li>*Classify 2-dimensional figures in a hierarchy of sets and subsets using graphic organizers based on their attributes and properties</li> <li>*Convert units with a measurement system, including the use of proportions and rates</li> </ul>
	Personal Finance	<ul style="list-style-type: none"> <li>*Read and understand a credit report and its value</li> <li>*Calculate and compare annual salaries and lifetime salaries</li> <li>*Explain how actions impact credit</li> <li>*Define income tax, payroll tax, sales tax and property tax</li> <li>*Explain the difference gross income and net income</li> <li>*Balance a simple budget</li> </ul>
<b>Fourth Grading Period</b>	Rates, Ratios, Percents	<ul style="list-style-type: none"> <li>*Represent problems involving ratios and rates using scale factors, tables, graphs and proportions</li> <li>*Determine equivalent ratios and rates</li> <li>*Solve prediction and comparison problems involving ratios and rates</li> <li>*Generate equivalent forms of fractions, percents and decimals</li> <li>*Estimate using benchmark fractions and percents</li> <li>*Solve real-world problems to find the percent and the whole</li> </ul>

		*Solve real-world problems to find the whole given a part and the percent
	Functions & Geometry	*Identify independent and dependent quantities from tables and graphs *Model area formulas for parallelograms, trapezoids and triangles by decomposing and rearranging parts of these shapes *Write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, triangles, and volume of right rectangular prisms where dimensions are positive rational numbers