

## MATHEMATICS – GRADE 6 CONCEPTS BY QUARTER

|  | Quarter 1  | Quarter 2  | Quarter 3   | Quarter 4  |
|--|--|--|---|--|
| <b>PROBLEM SOLVING</b>                     | <ul style="list-style-type: none"> <li>• Look for and make use of structure</li> <li>• Attend to precision</li> <li>• Use appropriate tools strategically</li> <li>• Make sense of problems and persevere in solving them</li> <li>• Model with mathematics</li> </ul> |  |   |  |
| <b>MATHEMATICAL COMMUNICATION</b>          | <ul style="list-style-type: none"> <li>• Construct viable arguments and critique the reasoning of others</li> <li>• Reason abstractly and quantitatively</li> <li>• Look for and express regularity in repeated reasoning</li> </ul>                                   |  |   |  |
| <b>NUMBERS AND OPERATIONS</b>              | <ul style="list-style-type: none"> <li>• Understanding rational numbers, meanings of operations and how they relate to each other</li> <li>• Identify locations and describe spatial relationships using coordinate geometry</li> </ul>                                | <ul style="list-style-type: none"> <li>• Compute fluently and make reasonable estimates using fractions and decimals</li> <li>• Estimate and find decimal and fraction sums, differences, products, and quotients</li> </ul> | <ul style="list-style-type: none"> <li>• Write ratios, find unit rates, and solve proportions.</li> <li>• Relate fractions, decimals, and percents</li> </ul> |  |
| <b>OPERATIONS &amp; ALGEBRAIC THINKING</b> | <ul style="list-style-type: none"> <li>• Represent and analyze mathematical situations to solve equations</li> </ul>   | <ul style="list-style-type: none"> <li>• Solve algebraic equations using decimals and fractions</li> </ul>   |   |  |
| <b>GEOMETRY</b>                            | N/A  | N/A  |   | <ul style="list-style-type: none"> <li>• Solve real-world problems involving area, surface area, and volume</li> </ul> |
| <b>MEASUREMENT &amp; DATA</b>              | N/A  | N/A  | <ul style="list-style-type: none"> <li>• Represent and analyze data in a variety of table and graphs</li> </ul>   | <ul style="list-style-type: none"> <li>•</li> </ul>  |