### MATHEMATICS – GRADE 3 CONCEPTS BY QUARTER

During the 3rd grade year, your child will encounter the following skills and concepts in the Mathematics Classroom:

<table>
<thead>
<tr>
<th>Skills</th>
<th>Quarter 1</th>
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</thead>
</table>
| **PROBLEM SOLVING** | • Look for and make use of structure  
• Attend to precision  
• Use appropriate tools strategically  
• Make sense of problems and persevere in solving them  
• Model with mathematics | | | |
| **MATHEMATICAL COMMUNICATION** | • Construct viable arguments and critique the reasoning of others  
• Reason abstractly and quantitatively  
• Look for and express regularity in repeated reasoning | | | |
| **NUMBERS AND OPERATIONS** | • Solve problems in adding, subtracting and multiplying  
• Solve multi-digit problems  
• Identify and explain patterns | • Develop an understanding of fractions | | |
| **OPERATIONS & ALGEBRAIC THINKING** | • Solve problems using multiplication  
• Understand that multiplication and division are related | • Solve problems using division  
• Understand that multiplication and division are related  
• Demonstrate multiplication and division fluency | | |
| **GEOMETRY** | N/A | N/A | • Identify, compare and classify shapes  
• Relate shapes, fractions and area | |
| **MEASUREMENT & DATA** | • Read and display using line plots, bar graphs, tally charts, pictographs and tables | • Tell time to the nearest minute and solve problems involving time  
• Solve problems involving measurement of temperature, liquid volume, mass or length  
• Find and understand perimeter and area of polygons  
• Find the area of a rectangle | | |

Skills are on-going; the concepts are listed in the quarter they are introduced.