

| GRADE 5 Number Specific Outcomes                                                                                                           | Key Understandings underpinning the Curriculum Outcomes from FSIM: Number Resource Books                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sample Diagnostic Tasks and Activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sample Learning Tasks Selected from FSIM: Number Resource Books                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Math Station Ideas:                                                                                                                                                                                                                                                   |
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| N5.1 Represent, compare, and describe whole numbers to 1 000 000 within the contexts of place value and the base ten system, and quantity. | <p>Whole and Decimal Numbers KU4:</p> <ul style="list-style-type: none"> <li>The whole numbers are in a particular order, and there are patterns in the way we say them that help us to remember the order.</li> </ul> <p>Whole and Decimal Numbers KU5:</p> <ul style="list-style-type: none"> <li>There are patterns in the way we write whole numbers that help us to remember their order.</li> </ul> <p>Whole and Decimal Numbers KU6:</p> <ul style="list-style-type: none"> <li>Place value helps us to think of the same whole number in different ways and this can be helpful.</li> </ul> <p>Whole and Decimal Numbers KU8:</p> <ul style="list-style-type: none"> <li>We can compare and order the numbers themselves.</li> </ul> | <p><i>Saying The Number Sequence By Ones And Tens</i> (Course Book, p. 174)</p> <p><i>Up To &amp; Over 100 and Up To &amp; Through The Hundreds</i> (Course Book, p. 171)</p> <p><i>What's Next</i> (Course Book, pp. 178 - 179)</p> <p><i>Read, Write And Say Numbers</i> (Course Book, p. 188)</p> <p><i>Flexible Numbers</i> (Course Book, pp. 192 - 194)</p> <p><i>Dinosaurs</i> (Course Book, p. 180)</p> <p><i>43 Candies</i> (Course Book, p. 184)</p> <p><i>116 Candies</i> (Course Book, p. 186)</p> <p><i>Circle the Biggest</i> (Course Book, p. 190)</p> | <p>Number Sense: Pages 56 – 59</p> <ul style="list-style-type: none"> <li>Comparing Numbers</li> <li>Place Value</li> <li>Numbers Cards</li> <li>Writing Large Numbers Case Study 4 (Number Sense Book pp 60 – 62)</li> <li>Did You Know? (Number Sense Book p. 63)</li> </ul> <p>Number Sense: Pages 68 – 71</p> <ul style="list-style-type: none"> <li>Wipeout</li> <li>Marbles</li> <li>800 Game</li> <li>Did You Know? (Number Sense Book p. 67)</li> </ul> <p>Number Sense: Pages 76 – 79</p> <ul style="list-style-type: none"> <li>Backwards and Forwards</li> <li>Grouping Objects</li> <li>Flexible Numbers</li> </ul> <p>Number Sense: Pages 90 – 91</p> <ul style="list-style-type: none"> <li>Clothesline</li> <li>Correct Order</li> <li>Skip Counting</li> <li>Estimating Case Study 4 (Number Sense Book pp. 94 - 96)</li> </ul> | <p><a href="#">Mystery Numbers</a> (online interactive)</p> <p><a href="#">Place Value Millionaire</a> (online interactive)</p> <p><a href="#">Place Value Disks</a> (link to manipulatives)</p> <p><a href="#">Place Value Matching Game</a> (link to printable)</p> |

| GRADE 5 Number Specific Outcomes                                                                                                                                                                                                                                  | Key Understandings underpinning the Curriculum Outcomes from FSIM: Operation Sense Resource Book                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sample Diagnostic Tasks and Activities                                                                                                                                                       | Sample Learning Tasks Selected from FSIM: Operation Sense Resource Books                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Math Station Ideas:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <p>N5.2 Analyze models of, develop strategies for, and carry out multiplication of whole numbers.</p> <p>N5.3 Demonstrate, with and without concrete materials, an understanding of division (3-digit by 1-digit) and interpret remainders to solve problems.</p> | <p>Operations KU3:<br/>Multiplying numbers is useful when we:</p> <ul style="list-style-type: none"> <li>- Repeat quantities</li> <li>- Use rates</li> <li>- Make ratio comparisons or changes (scales)</li> <li>- Make arrays and combinations</li> <li>- Need products of measures.</li> </ul> <p>Operations KU4:<br/>Dividing numbers is useful when we:</p> <ul style="list-style-type: none"> <li>- Share or group a quantity into a given number of portions</li> <li>- Share or group a quantity into portions of a given size</li> <li>- Need products of measures.</li> </ul> <p>Operations KU5:<br/>Repeating equal quantities and partitioning a quantity into equal parts helps us relate multiplication and division and understand their properties.</p> <p>Operations KU6:<br/>The same operation can be said and written in different ways.</p> | <p>Story Problems 2 (Course Book, pp. 212, 214))</p> <p>Calculator Number Sentences (Course Book, pp. 217 - 218)</p> <p>Find the solutions Sets B and C (Course Book pp. 223, 225 - 226)</p> | <p>Operation Sense: Pages 52 - 55</p> <ul style="list-style-type: none"> <li>• Multiplication</li> <li>• Soup for Everyone</li> <li>• Think Board</li> <li>• Combination Problems</li> <li>• Calculating Area</li> </ul> <p>Operation Sense: Pages 64 - 67</p> <ul style="list-style-type: none"> <li>• Less in a Group</li> <li>• Relay</li> <li>• Multiplication and Division</li> <li>• Think Board</li> </ul> <p>Case Study 2 (Operation Sense Book pp.s 68 – 71)<br/>Did You Know? (Operation Sense Book p. 71)</p> <p>Operation Sense: 76 - 80</p> <ul style="list-style-type: none"> <li>• Constructing Arrays</li> <li>• Which Operation?</li> <li>• Rewriting Number Sentences</li> </ul> <p>Did You Know? (Operation Sense Book p. 81)</p> <p>Operation Sense: 84 - 85</p> <ul style="list-style-type: none"> <li>• Saying Symbols</li> <li>• Which Goes with Which?</li> </ul> | <p><a href="#">“Classic Games Adapted to Basic Fact Mastery”</a> p. 144 TS-CM 3-5</p> <p><a href="#">“Bowl A Fact”</a> p. 145 TS-CM 3-5</p> <p><a href="#">“Salute!”</a> p. 145 TS-CM 3-5</p> <p><a href="#">“Build it and Break it”</a> p. 185 TS-CM 3-5</p> <p><a href="#">Multiplication Games</a> (link to variety of online interactives)</p> <p><a href="#">Monkeying Around With Multiplication</a> (link to printable)</p> <p><a href="#">Multiplication Freebie No Prep Games</a> (link to printable)</p> <p><a href="#">23 Best Multiplication Apps for Kids</a> (link to information)</p> <p><a href="#">5<sup>th</sup> Grade Multiplication Strategies</a> (link to 5 min video on YouTube)</p> |

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|  | <p>Computations KU3:<br/>We can think of a number as a multiplication or division in different ways. We can rearrange the factors of a multiplication without changing the quantity.</p> <p>Computations KU4:<br/>Place value and basic number facts together allow us to calculate with any whole or decimal number.</p> <p>Computations KU5:<br/>There are strategies we can practice to help us do calculations in our head.</p> <p>Computations KU6:<br/>There are some special calculating methods that we can use for calculations we find hard to do in our head.</p> <p>Computation KU8:<br/>Rounding, imagining a number line, and using properties of numbers and operations help us to estimate calculations.</p> <p>Operations Background Notes:<br/>(pages 22 – 29, pages 109 – 115)</p> |  | <p>Operation Sense: Pages 138 - 141</p> <ul style="list-style-type: none"> <li>• Divisibility</li> <li>• Doubling Strategy</li> <li>• Easier Multiplication Case Study 1 (Operation Sense Book pages 150 – 151)</li> </ul> <p>Operation Sense: Pages 146-149</p> <ul style="list-style-type: none"> <li>• Grid Partitions</li> <li>• Bundling Materials</li> <li>• Rewriting Multiplication</li> <li>• Division Number Sentences</li> </ul> <p>Operation Sense: 156-161</p> <ul style="list-style-type: none"> <li>• Choose the Operation 1, 2</li> <li>• Multiply the Parts</li> <li>• Constructing Arrays</li> <li>• Strategies</li> </ul> <p>Case Study 2 (Operation Sense Book pp. 162 - 163)</p> <p>Operation Sense: 168 - 171</p> <ul style="list-style-type: none"> <li>• Making It Easier</li> <li>• Multiplication Grids</li> <li>• Which is Easier?</li> </ul> <p>Operation Sense: Page 185-188</p> <ul style="list-style-type: none"> <li>• Multiplying by 26</li> <li>• Does It Make Sense?</li> <li>• Upper and Lower Limits</li> </ul> | <p><a href="#">“Divide It Up”</a> p. 119 TS-CM 3-5</p> <p><a href="#">Division Freebie No Prep Games</a> (link to printable)</p> <p><a href="#">Don’t Duck Division</a> (link to printable)</p> <p><a href="#">Division Games</a> (link to printable)</p> <p><a href="#">Division Dice, Remainders, Multiples</a> (link to printables)</p> <p><a href="#">Matching Division</a> (online)</p> <p><a href="#">Division as an Unknown Factor</a> (link to printable)</p> <p><a href="#">Missing Numbers: Division</a> (link to printable)</p> <p><a href="#">Identify the Unknown</a> (link to printable)</p> <p><a href="#">“Roll and Divide”</a> (document)</p> |
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| GRADE 5 Number Specific Outcomes                                                                                                                                                                                          | Key Understandings underpinning the Curriculum Outcomes from FSIM: Operation Sense Book                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sample Diagnostic Tasks and Activities | Sample Learning Tasks Selected from FSIM: Operation Sense Resource Book                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Math Station Ideas:                                                                                                                                                                 |
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| <p>N5.4 Develop and apply personal strategies for estimation and computation including:</p> <ul style="list-style-type: none"> <li>• front-end rounding</li> <li>• compensation</li> <li>• compatible numbers.</li> </ul> | <p>Operations KU7:<br/>Properties of operations and relationships between them can help us to decide whether number sentences are true.</p> <p>Operations KU8:<br/>Thinking of a problem as a number sentence often helps us solve it. Sometimes we need to rewrite the number sentence in a different but equivalent way.</p> <p>Computations KU5:<br/>There are strategies we can practice to help us do calculations in our head.</p> <p>Computation KU8:<br/>Rounding, imagining a number line, and using properties of numbers and operations help us to estimate calculations.</p> |                                        | <p>Operation Sense: 89 - 93</p> <ul style="list-style-type: none"> <li>• Missing Number</li> <li>• Today's Number is...</li> <li>• What Do You Know?</li> <li>• Calculating Strategies</li> </ul> <p>Operation Sense: 97 - 101</p> <ul style="list-style-type: none"> <li>• Best Buy</li> <li>• Related Numbers</li> <li>• Equivalent Sentences</li> <li>• Exploring Word Problems</li> </ul> <p>Operation Sense: 156 - 161</p> <ul style="list-style-type: none"> <li>• Compensation</li> <li>• Front-end Loading 1, 2, 3</li> <li>• Compatible Numbers 1,2</li> <li>• Compensate</li> </ul> <p>Operation Sense: Page 185-188</p> <ul style="list-style-type: none"> <li>• Calculator Test</li> <li>• Shopping Estimates</li> <li>• Place Value</li> <li>• Estimating Collections</li> <li>• Exact or Approximate?</li> <li>• Is it Reasonable?</li> <li>• Best Estimates</li> </ul> <p>Case Study 4 (Operation Sense Book pp. 189 - 191)</p> | <p><a href="#">"High or Low?"</a> p. 197 TS-CM 3-5</p> <p><a href="#">The Quotient Café</a> (online interactive)</p> <p><a href="#">Estimate or Compute</a> (link to printable)</p> |

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|  | <p>Computations KU10: f<br/>Thinking about what makes sense helps us to check and interpret the results of calculations.</p> <p>Operations Background Notes:<br/>See “Multiplication Facts” and “Techniques for Mental Calculation”, (Operation Sense, p. 109-115)</p> |  | <p>Operation Sense: Pages 205 - 208</p> <ul style="list-style-type: none"> <li>• Place Value</li> <li>• Realistic Remainders</li> <li>• Sensible Answers</li> <li>• Rounding</li> </ul> |  |
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| GRADE 5 Number Specific Outcomes                                                                                                                                                                                                                           | Key Understandings underpinning the Curriculum Outcomes from FSIM: Number Sense Book                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sample Diagnostic Tasks and Activities                                                                                                                                                                         | Sample Learning Tasks Selected from FSIM: Number AND Operation Sense Resource Books                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Math Station Ideas:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| N5.5 Demonstrate an understanding of fractions by using concrete and pictorial representations to: <ul style="list-style-type: none"> <li>• create sets of equivalent fractions</li> <li>• compare fractions with like and unlike denominators.</li> </ul> | <p>Fractions KU2:<br/>We can partition objects and collections into two or more equal-sized parts and the partitioning can be done in different ways.</p> <p>Fractions KU3:<br/>We use fraction words and symbols to describe parts of a whole. The whole can be an object, a collection or a quantity.</p> <p>Fractions KU4:<br/>The same fractional quantity can be represented with a lot of different fractions. We say fractions are equivalent when they represent the same number or quantity.</p> <p>Fractions KU 5:<br/>We can compare and order fractional numbers and place them on a number line.</p> | <p>Did You Know? ((Number Sense Book, p. 120)</p> <p>Three-Quarters ((Number Sense Book, p. 132)</p> <p>Did You Know? ((Number Sense Book, p. 139)</p> <p>Comparing Fractions ((Number Sense Book, p. 148)</p> | <p>Number Sense: 114 - 117</p> <ul style="list-style-type: none"> <li>• Sharing a Pizza</li> <li>• Equal Portions</li> <li>• Chocolate Bars</li> <li>• Pattern Blocks</li> </ul> <p>Case Study 2 (Number Sense Book) pp. 121 – 123)</p> <p>Number Sense: 128 - 133</p> <ul style="list-style-type: none"> <li>• Finding Fractions</li> <li>• Measuring Metres</li> <li>• Fractions and Shape</li> <li>• Stars</li> </ul> <p>Number Sense: 137 - 141</p> <ul style="list-style-type: none"> <li>• Equivalent Fractions</li> <li>• Equivalence</li> <li>• Fractions of a Collection • Fraction Tapes</li> </ul> <p>Number Sense: Pages 145 – 148</p> <ul style="list-style-type: none"> <li>• Allowance</li> <li>• Sharing Chocolate</li> <li>• Ordering and Comparing Fractions</li> <li>• Fraction Cards</li> <li>• Sorting Fractions</li> <li>• Fraction Number Line</li> </ul> <p>Case Study 3 (Number Sense Book pp. 149 – 151)</p> | <p><a href="#">“Who is Winning?”</a> p. 209 TS-CM 3-5</p> <p><a href="#">“On The Line”</a> p. 218 TS-CM 3-5</p> <p><a href="#">“Zero, One-Half, Or One”</a> p. 219 TS-CM 3-5</p> <p><a href="#">“Different Fillers”</a> p. 220 TS-CM 3-5</p> <p><a href="#">“Missing-Number Equivalencies”</a> p. 223 TS-CM 3-5</p> <p><a href="#">Tony’s Fraction Pizza Shop</a> (online interactive)</p> <p><a href="#">Ordering Fractions: Partner Game</a> (link to printable)</p> <p><a href="#">Fraction Number Line Concentration</a> (link to printable)</p> |

| GRADE 5 Number Specific Outcomes                                                                                                                                                                                   | Key Understandings underpinning the Curriculum Outcomes from FSIM: Number Sense Book                                                                                                                                                                                                                             | Sample Diagnostic Tasks and Activities                                                                                                                                                                                                | Sample Learning Tasks Selected from FSIM: Number AND Operation Sense Resource Books                                                                                                                                                                                                                                                                                                                                                                                                                     | Math Station Ideas:                                                                                                                                                                                                                                                                                                                                                         |
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| <p>N5.6 Demonstrate understanding of decimals to thousandths by:</p> <ul style="list-style-type: none"> <li>describing and representing</li> <li>relating to fractions</li> <li>comparing and ordering.</li> </ul> | <p>Whole and Decimal Numbers KU7:<br/>We can extend the patterns in the way we write whole numbers to write decimals.</p> <p>Whole and Decimal Numbers KU8:<br/>We can compare and order the numbers themselves.</p> <p>Fractions KU6:<br/>A fractional number can be written as a division or as a decimal.</p> | <p>800 Game ((Course Book, pp. 195 - 196)</p> <p>Decimals ((Course Book, pp. 197 - 200)</p> <p>Numbers ((Course Book, pp. 201 - 202)</p> <p>Money ((Course Book, pp. 203 - 204)</p> <p>Change Task 2 ((Course Book, pp. 205, 207)</p> | <p>Number Sense: Pages 83 - 85</p> <ul style="list-style-type: none"> <li>Tenths</li> <li>Number Scrolls</li> <li>Place Invaders</li> <li>Number cycles</li> </ul> <p>Number Sense: Pages 90 - 93</p> <ul style="list-style-type: none"> <li>Skip Counting Backwards</li> <li>Biggest Number</li> <li>Decimal Sequences</li> <li>More Than/Less Than</li> </ul> <p>Number Sense: Pages 157 – 159</p> <ul style="list-style-type: none"> <li>Fractions to Decimals</li> <li>Decimal Fractions</li> </ul> | <p><a href="#">Treefrog Treasure</a> (online interactive; level 3)</p> <p><a href="#">“Familiar Fractions to Decimals”</a> p. 264 TS-CM 3-5</p> <p><a href="#">“Line ‘Em Up”</a> p. 268 TS-CM 3-5</p> <p><a href="#">Scooter Quest Place Value – Decimals</a> (online interactive)</p> <p><a href="#">Decimal Place Value with Playing Cards</a> (link to instructions)</p> |

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| N5.7 Demonstrate an understanding of addition and subtraction of decimals (limited to thousandths). | <p>Computations KU4: (Added) f Place value and basic number facts together allow us to calculate with any whole or decimal number</p> <p>Computations KU6: (Added) f There are some special calculating methods that we can use for calculations we find hard to do in our head.</p> <p>Computations KU10: f Thinking about what makes sense helps us to check and interpret the results of calculations.</p> | <p>800 Game ((Course Book, pp. 195 - 196)</p> <p>Decimals ((Course Book, pp. 197 - 200)</p> <p>Numbers ((Course Book, pp. 201 - 202)</p> <p>Money ((Course Book, pp. 203 - 204)</p> <p>Change Task 2 ((Course Book, pp. 205, 207)</p> | <p>Operation Sense: Pages 170-171 (Added)</p> <ul style="list-style-type: none"> <li>• Total Scores</li> <li>• Rules Rule!</li> </ul> <p>Operation Sense: Pages 207 - 208</p> <ul style="list-style-type: none"> <li>• Spot the Mistakes</li> </ul> | <p><a href="#">Wishball: Thousandths</a> (online interactive)</p> <p><a href="#">Decimals Jeopardy</a> (online interactive)</p> <p><a href="#">Decimal Addition and Subtraction Game</a> (link to printable)</p> <p><a href="#">Estimate the Sums and Differences of Decimals</a> (online interactive)</p> |

