| Ontario Grade 3 Curriculum | Math Makes Sense 3 Student Text | Comments |
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| B. Number |  |  |
| B1. Number Sense |  |  |
| Whole Numbers | Unit 1, Lesson 6, pages 21-24; <br> Lesson 8, pages 28-30; <br> Lesson 11, pages 39-41; <br> Lesson 12, pages 42, 43; <br> Lesson 13, pages 44-46; <br> decompose whole numbers up to and <br> including 1000, using a variety of tools and <br> strategies, and describe various ways they <br> are used in everyday life <br> Unit Problem, pages 52, 53 |  |
| B1.2 compare and order whole numbers up <br> to and including 1000, in various contexts | Unit 1, Lesson 4, pages 15-17; <br> Lesson 10, pages 35-38 |  |
| B1.3 round whole numbers to the nearest ten <br> or hundred, in various contexts | Unit 1, Lesson 14, pages 47-49 |  |
| B1.4 count to 1000, including by 50s, 100s, <br> and 200s, using a variety of tools and <br> strategies | Unit 1, Lesson 2, pages 9-11; <br> Lesson 3, pages 12-14; <br> Lesson 5, pages 18-20; <br> Lesson 9, pages 31-34 | Counting by 50s and 200s is not addressed. |
| B1.5 use place value when describing and <br> representing multi-digit numbers in a variety <br> of ways, including with base ten materials | Unit 1, Lesson 6, pages 21-24; <br> Lesson 8, pages 28-30 |  |
| Fractions | Unit 8, Lesson 1, pages-307; <br> Lesson 2, pages 308-311; <br> Lesson 3, pages 312-314; <br> Lesson 4, pages 315-317; <br> Lesson 5, pages 318-321; <br> Lesson 6, pages 324-326; <br> Lempare the results of fair-share problems pages 324-326; <br> that involve sharing up to 20 items among 2, <br> 3, 4, 5, 6, 8, and 10 sharers, including <br> problems that result in whole numbers, <br> mixed numbers, and fractional amounts <br> Unit Problem, pages 328, 329 |  |


| B1.7 represent and solve fair-share problems <br> that focus on determining and using <br> equivalent fractions, including problems that <br> involve halves, fourths, and eighths; thirds <br> and sixths; and fifths and tenths |  | Equivalent fractions are not addressed. <br> See Math Makes Sense 4 Student Text, Unit <br> 8, Lesson 5 for equivalent fractions. |
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| B2. Operations |  |  |
| Properties and Relationships |  |  |
| B2.1 use the properties of operations, and <br> the relationships between multiplication and <br> division, to solve problems and check <br> calculations | Unit 4, Lesson 1, pages 146-148; <br> Lesson 2, pages 149-151; <br> Lesson 3, pages 152-155; <br> Lesson 4, pages 156-158; <br> Lesson 5, pages 159-161; <br> Lesson 6, pages 162-166; <br> Lesson 8, pages 168-170; <br> Lesson 9, pages 171-173; <br> Lesson 10, pages 174-177; <br> Lesson 11, pages 178-180 |  |
| Math Facts |  |  |
| B2.2 recall and demonstrate multiplication <br> facts of 2, 5, and 10, and related division facts | Unit 4, Lesson 3, pages 152-155; <br> Lesson 4, pages 156-158; <br> Lesson 10, pages 174-177; <br> Lesson 11, pages 178-180 |  |
| Mental Math |  |  |
| B2.3 use mental math strategies, including <br> estimation, to add and subtract whole <br> numbers that add up to no more than 1000, <br> and explain the strategies used | Unit 2, Lesson 7, pages 74, 75; <br> Lesson 8, pages 76, 77; <br> Lesson 10, pages 80-82 |  |


| Addition and Subtraction |  |  |
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| B2.4 demonstrate an understanding of <br> algorithms for adding and subtracting whole <br> numbers by making connections to and <br> describing the way other tools and strategies <br> are used to add and subtract | Unit 2, Lesson 1, pages 56-58; <br> Lesson 2, pages 59-61; <br> Lesson 3, pages 62-64; <br> Lesson 4, pages 65-67; <br> Lesson 5, pages 68, 69; <br> Lesson 6, pages 70-73; <br> Lesson 9, pages 78, 79; <br> Lesson 11, pages 83-85; <br> Lesson 12, pages 86-89; <br> Lesson 13, pages 90-93; <br> Lesson 14, pages 94-97 |  |
| B2.5 represent and solve problems involving <br> the addition and subtraction of whole <br> numbers that add up to no more than 1000, <br> using various tools and algorithms | Unit 2, Lessons 1-14, pages 56-97 |  |
| Multiplication and Division | Unit 4, Lesson 1, pages 146-148; <br> B2.6 represent multiplication of numbers up <br> to 10 $\times 10$ and division up to 100 $\div 10$, using a <br> variety of tools and drawings, including <br> arrays | Lesson 2, pages 149-151; pages 152-155; <br> Lesson 4, pages 156-158; <br> Lesson 5, pages 159-161; <br> Lesson 6, pages 162-165; <br> Lesson 8, pages 168-170; <br> Lesson 9, pages 171-173; <br> Lesson 10, pages 174-177; <br> Lesson 11, pages 178-180 |
| Bnit 4, Lessons 1-6, 8-11, pages 146-165, <br> B2.7 represent and solve problems involving <br> multiplication and division, including <br> problems that involve groups of one half, one <br> fourth, and one third, using tools and <br> drawings | Unit 8, Lesson 3, pages 312-314; <br> Lesson 4, pages 315-317 <br> Lesson 6, pages 322, 323 |  |


| B2.8 represent the connection between the <br> numerator of a fraction and the repeated <br> addition of the unit fraction with the same <br> denominator using various tools and <br> drawings, and standard fractional notation | Unit 8, Lesson 5, pages 318-321 | The connection between the numerator and <br> repeated addition is not addressed. |
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| B2.9 use the ratios of 1 to 2, 1 to 5, and 1 to <br> 10 to scale up numbers and to solve <br> problems |  | Ratios are not addressed. <br> See Math Makes Sense 6 Student Text, <br> Unit 8, Lesson 9 for ratios. |
| C. Algebra |  |  |
| C1. Patterns and Relationships |  |  |
| Patterns | Unit 4, Lesson 12, pages 181-183 <br> C1.1 identify and describe repeating <br> elements and operations in a variety of <br> patterns, including patterns found in real-life <br> contexts <br> Unit 10, Lesson 1, pages 372-374; <br> Lesson 2, pages 375-377; <br> Lesson 4, pages 378-381; pages 382, 383; <br> Lesson 5, pages 384-387; <br> Lesson 6, pages 388-390; <br> Lesson 7, pages 391-394 |  |
| C1.2 create and translate patterns that have <br> repeating elements, movements, or <br> operations using various representations, <br> including shapes, numbers, and tables of <br> values | Unit 4, Lesson 12, pages 181-183 <br> Unit 10, Lesson 1, pages 372-374; <br> Lesson 2, pages 375-377; <br> Lesson 3, pages 378-381; <br> Lesson 4, pages 382, 383; <br> Lesson 5, pages 384-387; <br> Lesson 6, pages 388-390; <br> Unit Problem, pages 400, 401 |  |


| C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns that have repeating elements, movements, or operations | Unit 10, Lesson 1, pages 372-374; <br> Lesson 2, pages 375-377; <br> Lesson 3, pages 378-381; <br> Lesson 4, pages 382, 383; <br> Lesson 5, pages 384-387; <br> Lesson 6, pages 388-390 |  |
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| C1.4 create and describe patterns to illustrate relationships among whole numbers up to 1000 | Unit 1, Lesson 1, pages 6-8; <br> Unit 2, Lesson 1, pages 56-58; Lesson 4, pages 65-67 <br> Unit 4, Lesson 3, pages 152-155; Lesson 4, pages 156-158; Lesson 5, pages 159-161; Lesson 6, pages 162-165; Lesson 12, pages 181-184 <br> Unit 10, Lesson 1, pages 372-374; Lesson 2, pages 375-377 |  |
| C2. Equations and Inequalities |  |  |
| Variables |  |  |
| C2.1 describe how variables are used, and use them in various contexts as appropriate | Unit 2, Lessons 1, 2, 3, 4, 5, pages 56-69 <br> Unit 4, Lesson 2, pages 149-151; <br> Lesson 5, pages 159-161; <br> Lesson 9, pages 171-173; <br> Lesson 10, pages 174-177; <br> Lesson 11, pages 178-180 | Symbols are used, not variables. |


| Equalities and Inequalities |  |  |
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| C2.2 determine whether given sets of <br> addition, subtraction, multiplication, and <br> division expressions are equivalent or not |  | Identifying equivalent expressions is not <br> addressed. |
| C2.3 identify and use equivalent relationships <br> for whole numbers up to 1000, in various <br> contexts | Unit 2, Lesson 1, pages 56-58; <br> Lesson 3, pages 62-64 | Using equivalent relationships for 2- and <br> 3-digit numbers is not addressed. |
| C3. Coding |  | Coding is not addressed. |
| Coding Skills |  |  |
| C3.1 solve problems and create <br> computational representations of <br> mathematical situations by writing and <br> executing code, including code that involves <br> sequential, concurrent, and repeating events |  | Coding is not addressed. |
| C3.2 read and alter existing code, including <br> code that involves sequential, concurrent, <br> and repeating events, and describe how <br> changes to the code affect the outcomes |  |  |
| D. Data |  | Sorting sets of data about people is not <br> addressed. <br> Tree diagrams and Carroll diagrams are not <br> addressed. |
| D1. Data Literacy |  |  |
| Data Collection and Organization |  |  |
| D1.1 sort sets of data about people or things <br> according to two or three attributes, using <br> tables and logic diagrams, including Venn, <br> Carroll, and tree diagrams, as appropriate | Unit 3, Lesson 4, pages 113-115 <br> Unit 5, Lesson 1, pages 192-195; <br> Lesson 2, pages 196-199 | Unit 5, Lesson 8, pages 218-220; <br> Lesson 9, pages 221-223; <br> Unit Problem, pages 226, 227 |
| D1.2 collect data through observations, <br> experiments, and interviews to answer <br> questions of interest that focus on qualitative <br> and quantitative data, and organize the data <br> using frequency tables |  |  |


| Data Visualization |  |  |
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| D1.3 display sets of data, using many-to-one <br> correspondence, in pictographs and bar <br> graphs with proper sources, titles, and labels, <br> and appropriate scales | Unit 5, Lesson 5, pages 208-211; <br> Lesson 6, pages 212-215; <br> Lesson 8, pages 218-220; <br> Lesson 9, pages 221-223; <br> Unit Problem, pages 226, 227 |  |
| Data Analysis |  | The mean and mode are not addressed. <br> See Math Makes Sense 5 Student Text, <br> Unit 5, Lesson 2 for mean and mode. |
| D1.5 determine the mean and identify the <br> mode(s), if any, for various data sets involving <br> whole numbers, and explain what each of <br> these measures indicates about the data |  |  |
| D1.5 analyse different sets of data presented <br> in various ways, including in frequency tables <br> and in graphs with different scales, by asking <br> and answering questions about the data and <br> drawing conclusions, then make convincing <br> arguments and informed decisions | Unit 5, Lesson 3, pages 200-203; <br> Lesson 4, pages 204-207; <br> Lesson 5, pages 208-211; <br> Lesson 6, pages 212-215; <br> Lesson 8, pages 218-220; <br> Lesson 9, pages 221-223; <br> Unit Problem, pages 226, 227 |  |
| D2. Probability |  |  |
| Probability |  |  |
| D2.1 use mathematical language, including <br> the terms "impossible", "unlikely", "equally <br> likely", "likely", and "certain", to describe the <br> likelihood of events happening, and use that <br> likelihood to make predictions and informed <br> decisions | Unit 11, Lesson 1, pages 404, 405; <br> Lesson 2, pages 406-409; <br> Lesson 3, pages 410-413; <br> Lesson 4, pages 414, 415 | Making and testing predictions about the <br> mean and modes is not addressed. |
| D2.2 make and test predictions about the <br> likelihood that the mean and the mode(s) of <br> a data set will be the same for data collected <br> from different populations |  |  |


| E. Spatial Sense |  |  |
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| E1. Geometric and Spatial Reasoning |  |  |
| Geometric Reasoning |  |  |
| E1.1 sort, construct, and identify cubes, prisms, pyramids, cylinders, and cones by comparing their faces, edges, vertices, and angles | Unit 3, Lesson 2, pages 107-109; <br> Lesson 3, pages 110-112; <br> Lesson 8, pages 124-127; <br> Lesson 9, pages 128-131; <br> Lesson 10, pages 132-134 |  |
| E1.2 compose and decompose various structures, and identify the two-dimensional shapes and three-dimensional objects that these structures contain | Lesson 11, pages 135-137; <br> Unit Problem, pages 140, 141 |  |
| E1.3 identify congruent lengths, angles, and faces of three-dimensional objects by mentally and physically matching them, and determine if the objects are congruent | Unit 3, Lesson 5, pages 116-118; Lesson 10, pages 132-134; Lesson 11, pages 135-137 |  |
| Location and Movement |  |  |
| E1.4 give and follow multi-step instructions involving movement from one location to another, including distances, and half- and quarter-turns | Unit 7, Lesson 1, pages 276-279; Lesson 4, pages 286-289 |  |
| E2. Measurement |  |  |
| Length, Mass, and Capacity |  |  |
| E2.1 use appropriate units of length to estimate, measure, and compare the perimeters of polygons and curved shapes, and construct polygons with a given perimeter | Unit 9, Lesson 4, pages 345-347; <br> Lesson 5, pages 348-350; <br> Lesson 9, pages 361-363 | Perimeters of curved shapes are not addressed. <br> See Math Makes Sense 5 Student Text, Unit 9, Lesson 4 for the perimeter of a curved shape. |
| E2.2 explain the relationships between millimetres, centimetres, metres, and kilometres as metric units of length, and use benchmarks for these units to estimate lengths | Unit 9, Lesson 1, pages 334-337; Lesson 2, pages 338-341; Lesson 3, pages 342-344 | Millimetres are not addressed. <br> See Math Makes Sense 4 Student Text, Unit 9, Lesson 2 for measuring in millimetres. |


| E2.3 use non-standard units appropriately to <br> estimate, measure, and compare capacity, <br> and explain the effect that overfilling or <br> underfilling, and gaps between units, have on <br> accuracy |  | Measuring capacity in non-standard units is <br> not addressed. <br> See Math Makes Sense 2 Teacher Guide, <br> Lessons 1, 2, and 3 for measuring capacity in <br> non-standard units. |
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| E2.4 compare, estimate, and measure the <br> mass of various objects, using a pan balance <br> and non-standard units |  | Measuring mass in non-standard units is not <br> addressed. <br> See Math Makes Sense 2 Teacher Guide, <br> Lessons 4 and 5 for measuring mass in <br> non-standard units. |
| E2.5 use various units of different sizes to <br> measure the same attribute of a given item, <br> and demonstrate that even though using <br> different-sized units produces a different <br> count, the size of the attribute remains the <br> same | Unit 9, Lesson 7, pages 355-357 |  |$\quad$| Time |
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| F. Financial Literacy |  |  |
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| F1. Money and Finances |  |  |
| Money Concepts |  |  |
| F1.1 estimate and calculate the change <br> required for various simple cash transactions <br> involving whole-dollar amounts and amounts <br> less than one dollar | Unit 6, Lesson 5, pages 244-246; <br> Lesson 6, pages 247-249; <br> Lesson 7, pages 250, 251; <br> Lesson 8, pages 252, 253; <br> Lesson 9, pages 254-257 |  |

