

Ontario Grade 3 Curriculum	Math Makes Sense 3 Student Text	Comments
B. Number		
B1. Number Sense		
Whole Numbers		
B1.1 read, represent, compose, and	Unit 1, Lesson 6, pages 21-24;	
decompose whole numbers up to and	Lesson 8, pages 28-30;	
including 1000, using a variety of tools and	Lesson 11, pages 39-41;	
strategies, and describe various ways they	Lesson 12, pages 42, 43;	
are used in everyday life	Lesson 13, pages 44-46;	
	Unit Problem, pages 52, 53	
B1.2 compare and order whole numbers up	Unit 1, Lesson 4, pages 15-17;	
to and including 1000, in various contexts	Lesson 10, pages 35-38	
B1.3 round whole numbers to the nearest ten	Unit 1, Lesson 14, pages 47-49	
or hundred, in various contexts		
B1.4 count to 1000, including by 50s, 100s,	Unit 1, Lesson 2, pages 9-11;	Counting by 50s and 200s is not addressed.
and 200s, using a variety of tools and	Lesson 3, pages 12-14;	
strategies	Lesson 5, pages 18-20;	
	Lesson 9, pages 31-34	
B1.5 use place value when describing and	Unit 1, Lesson 6, pages 21-24;	
representing multi-digit numbers in a variety	Lesson 8, pages 28-30	
of ways, including with base ten materials		
Fractions		
B1.6 use drawings to represent, solve, and	Unit 8, Lesson 1, pages-307;	
compare the results of fair-share problems	Lesson 2, pages 308-311;	
that involve sharing up to 20 items among 2,	Lesson 3, pages 312-314;	
3, 4, 5, 6, 8, and 10 sharers, including	Lesson 4, pages 315-317;	
problems that result in whole numbers,	Lesson 5, pages 318-321;	
mixed numbers, and fractional amounts	Lesson 6, pages 324-326;	
	Lesson 7, pages 324-326;	
	Unit Problem, pages 328, 329	



B1.7 represent and solve fair-share problems		Equivalent fractions are not addressed.
that focus on determining and using		See Math Makes Sense 4 Student Text, Unit
involve balves fourths, and eighths: thirds		o, Lesson 5 for equivalent fractions.
and sixther and fifthe and tenths		
P2 Operations		
BZ. Operations Properties and Polationships		
P2 1 use the properties of operations, and	Lipit 4 Losson 1, pages 146, 148.	
b2.1 use the properties of operations, and	Unit 4, Lesson 1, pages 140-146,	
division to solve problems and sheek	Lesson 2, pages 149-151,	
alvision, to solve problems and check	Lesson 3, pages 152-155;	
calculations	Lesson 4, pages 156-158;	
	Lesson 5, pages 159-161;	
	Lesson 6, pages 162-166;	
	Lesson 8, pages 168-170;	
	Lesson 9, pages 1/1-1/3;	
	Lesson 10, pages 174-177;	
	Lesson 11, pages 178-180	
Math Facts		
B2.2 recall and demonstrate multiplication	Unit 4, Lesson 3, pages 152-155;	
facts of 2, 5, and 10, and related division facts	Lesson 4, pages 156-158;	
	Lesson 10, pages 174-177;	
	Lesson 11, pages 178-180	
Mental Math		
B2.3 use mental math strategies, including	Unit 2, Lesson 7, pages 74, 75;	
estimation, to add and subtract whole	Lesson 8, pages 76, 77;	
numbers that add up to no more than 1000,	Lesson 10, pages 80-82	
and explain the strategies used		



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



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



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



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





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



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



 E2.3 use non-standard units appropriately to estimate, measure, and compare capacity, and explain the effect that overfilling or underfilling, and gaps between units, have on accuracy E2.4 compare, estimate, and measure the mass of various objects, using a pan balance and non-standard units 		Measuring capacity in non-standard units is not addressed. See <i>Math Makes Sense 2</i> Teacher Guide, Lessons 1, 2, and 3 for measuring capacity in non-standard units. Measuring mass in non-standard units is not addressed. See <i>Math Makes Sense 2</i> Teacher Guide,
		Lessons 4 and 5 for measuring mass in non-standard units.
E2.5 use various units of different sizes to measure the same attribute of a given item, and demonstrate that even though using different-sized units produces a different count, the size of the attribute remains the same	Unit 9, Lesson 7, pages 355-357	
Time		
E2.6 use analog and digital clocks and timers to tell time in hours, minutes, and seconds	Unit 6, Lesson 2, pages 233-236;	Using timers to tell times is not addressed.
Area		
E2.7 compare the areas of two-dimensional shapes by matching, covering, or decomposing and recomposing the shapes, and demonstrate that different shapes can have the same area	Unit 9, Lesson 7, pages 355-357; Lesson 8, pages 358-360; Lesson 9, pages 361-363	
E2.8 use appropriate non-standard units to measure area, and explain the effect that gaps and overlaps have on accuracy	Unit 9, Lesson 7, pages 355-357; Lesson 8, pages 358-360; Lesson 9, pages 361-363	
E2.9 use square centimetres (cm ²) and square metres (m ²) to estimate, measure, and compare the areas of various two- dimensional shapes, including those with curved sides		Measuring area in metric units is not addressed. See <i>Math Makes Sense 4</i> Student Text, Unit 9, Lessons 9, 10, and 11 for estimating and measuring area in square centimetres and square metres.



F. Financial Literacy		
F1. Money and Finances		
Money Concepts		
F1.1 estimate and calculate the change	Unit 6, Lesson 5, pages 244-246;	
required for various simple cash transactions	Lesson 6, pages 247-249;	
involving whole-dollar amounts and amounts	Lesson 7, pages 250, 251;	
less than one dollar	Lesson 8, pages 252, 253;	
	Lesson 9, pages 254-257	