

Ontario Grade 6 Curriculum	Math Makes Sense 6 Student Text	Comments
B. Number		
B1. Number Sense		
Rational Numbers		
B1.1 read and represent whole numbers up	Unit 2, Lesson 1, pages 32-34	
to and including one million, using		
appropriate tools and strategies, and		
describe various ways they are used in		
everyday life		
B1.2 read and represent integers, using a	Unit 1, Lesson 5, pages 20-22	
variety of tools and strategies, including		
horizontal and vertical number lines		
B1.3 compare and order integers, decimal	Unit 4, Lesson 3, pages 121-124	Comparing and ordering integers is not
numbers, and fractions, separately and in		addressed.
combination, in various contexts	Unit 8, Lesson 3, pages 294-297	See Math Makes Sense 7 Student Text, Unit
		9, Lesson 9.2.
		Comparing and ordering a combination of
		integers, decimals, and fractions is not
Frantiana Desimala and Deveats		addressed.
Fractions, Decimals, and Percents	Luit 4 Losson 2 magas 117 120.	
B1.4 read, represent, compare, and order	Unit 4, Lesson 2, pages 117-120;	
various contexts	Lesson 3, pages 121-124	
P1 E round docimal numbers, both	Lipit 4 Losson 4 pages 126 129	
bi.5 found decinial numbers, both	Unit 4, Lesson 4, pages 120-120,	
tenth hundredth or whole number as	Lesson 12, pages 155-157	
applicable in various contexts		
B1.6 describe relationships and show	Unit 4 Lesson 2 pages 117-120	
equivalences among fractions and decimal		
numbers up to thousandths. using	Unit 8, Technology, page 299:	
appropriate tools and drawings, in various	Lesson 7, pages 312-315	
contexts		



B2. Operations		
Properties and Relationships		
B2.1 use the properties of operations, and	Unit 2, Lesson 7, pages 50-52;	
the relationships between operations, to	Lesson 8, pages 54-57; Lesson 9, pages 60-63;	
solve problems involving whole numbers,	Lesson 10, pages 64-67;	
decimal numbers, fractions, ratios, rates, and	Lesson 11, pages 68-71;	
whole number percents, including those	Lesson 12, pages 72-75	
requiring multiple steps or multiple		
operations	Unit 4, Lesson 5, pages 129-131;	
	Lesson 6, pages 132-136;	
	Lesson 7, pages 137-139;	
	Lesson 8, pages 140-142;	
	Lesson 9, pages 143-145;	
	Lesson 10, pages 147-150;	
	Lesson 11, pages 151-154;	
	Lesson 12, pages 155-157	
	Unit 8, Lesson 4, pages 300-303;	
	Lesson 5, pages 304-306;	
	Lesson 8, pages 316-319;	
	Lesson 9, pages 320-323;	
	Lesson 10, pages 324-327;	
	Lesson 11, pages 328-331	
Math Facts		
B2.2 understand and use the divisibility rules	Unit 1, Lesson 3, pages 13-15	
to determine whether numbers are divisible		
by 2, 3, 4, 5, 6, 8, 9, and 10		
Mental Math		
B2.3 use mental math strategies to calculate	Unit 8, Lesson 6, pages 308-311;	
percents of whole numbers, including 1%,	Lesson 7, pages 312-315;	
5%, 10%, 15%, 25%, and 50%, and explain the	Lesson 8, pages 316-319	
strategies used		



Addition and Subtraction		
B2.4 represent and solve problems involving	Unit 2, Lesson 7, pages 50-52;	
the addition and subtraction of whole	Lesson 8, pages 54-57; Lesson 9, pages 60-63	
numbers and decimal numbers up to		
hundredths, using estimation and algorithms	Unit 4, Lesson 5, pages 129-131;	
	Lesson 6, pages 132-136	
P2 5 add and subtract fractions with like and	Linit & Losson 4, pages 200, 202;	
bz.5 duu ditu subtract fractions with like ditu	Unit 8, Lesson 4, pages 500-505,	
in various contexts	Lesson 5, pages 504-500	
Multiplication and Division		
B2 6 represent composite numbers as a	Unit 2 Lesson 5 pages 45-47	Factor trees are not addressed
product of their prime factors, including		
through the use of factor trees		
B2.7 represent and solve problems involving	Unit 4, Lesson 9, pages 143-145	An algorithm for multiplying 3-digit whole
the multiplication of three-digit whole		numbers by decimal tenths is not addressed.
numbers by decimal tenths, using algorithms		
B2.8 represent and solve problems involving		Dividing 3-digit whole numbers by decimal
the division of three-digit whole numbers by		tenths is not addressed.
decimal tenths, using appropriate tools,		
strategies, and algorithms, and expressing		
remainders as appropriate		
B2.9 multiply whole numbers by proper		Multiplying whole numbers by proper
fractions, using appropriate tools and		fractions is not addressed.
strategies		See Math Makes Sense / Student Text, Unit
		4, Lesson 4.6 for multiplying whole numbers
P2 10 divide whole numbers by proper		by proper fractions.
fractions, using appropriate tools and		bividing whole numbers by proper fractions
strategies		See Math Makes Sense & Student Text Unit
		4 Lesson 4.6 for dividing whole numbers by
		proper fractions
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B2.11 represent and solve problems involving	Unit 4, Lesson 11, pages 151-154;	
the division of decimal numbers up to	Lesson 12, pages 155-157	
thousandths by whole numbers up to 10,		
using appropriate tools and strategies		
B2.12 solve problems involving ratios,	Unit 8, Lesson 6, pages 308-311;	
including percents and rates, using	Lesson 7, pages 312-315;	
appropriate tools and strategies	Lesson 8, pages 316-319;	
	Lesson 9, pages 320-323;	
	Lesson 10, pages 324-327;	
	Lesson 11, pages 328-331	
	Unit 10, Lesson 4, pages 393-396	
C. Algebra		
C1. Patterns and Relationships		
Patterns		
C1.1 identify and describe repeating,	Unit 1, Lesson 1, pages 6-9;	Repeating patterns are not addressed.
growing, and shrinking patterns, including	Lesson 2, pages 10-12	
patterns found in real-life contexts, and		
specify which growing patterns are linear	Unit 10, Lesson 1, pages 380-383;	
	Lesson 2, pages 384-387;	
	Lesson 3, pages 388-391;	
	Lesson 4, pages 393-396	
C1.2 create and translate repeating, growing.	Unit 1. Lesson 1. pages 6-9:	Repeating patterns are not addressed.
and shrinking patterns using various	Lesson 2, pages 10-12	Algebraic expressions and equations for
representations, including tables of values.		linear patterns are not addressed.
graphs, and, for linear growing patterns	Unit 10, Lesson 1, pages 380-383	See Math Makes Sense 8 Student Text. Unit
algebraic expressions and equations	Lesson 2 nages 384-387	10 Lessons 10.2 and 10.3 for writing
	Lesson 3, pages 388-391.	algebraic expressions for natterns
	Lesson 4 nages 393-396	algebraie expressions for patterns.



C1 3 determine nattern rules and use them	Unit 1 Lesson 1 nages 6-9:	Repeating natterns are not addressed
to ovtend patterns, make and justify	Losson 2, pages 10, 12	Algebraic representations of pattern rules are
to extern patterns, make and justify	Lesson 2, pages 10-12	Algebraic representations of pattern rules are
predictions, and identify missing elements in		Not addressed.
repeating, growing, and shrinking patterns,	Unit 10, Lesson 1, pages 380-383;	See Math Makes Sense & Student Text, Unit
and use algebraic representations of the	Lesson 2, pages 384-387;	10, Lesson 10.2 and 10.3 for writing algebraic
pattern rules to solve for unknown values in	Lesson 3, pages 388-391;	expressions for patterns.
linear growing patterns	Lesson 4, pages 393-396	
C1.4 create and describe patterns to illustrate	Unit 1, Lesson 2, pages 10-12;	
relationships among whole numbers and	Lesson 3, pages 13-15	
decimal numbers		
	Unit 2. Lesson 4. pages 43. 44	
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	Unit 4, Lesson 7, pages 137-139;	
	Lesson 8. pages 140-142:	
	Lesson 9, pages 143-145	
C2. Equations and Inequalities		
Variables and Expressions		
C2.1 add monomials with a degree of 1 that		Adding monomials is not addressed
involve whole numbers, using tools		Adding monormals is not addressed.
C2.2 evaluate algebraic evangesions that		Evolucting algobraic averageigns is not
C2.2 evaluate algebraic expressions that		Evaluating algebraic expressions is not
involve whole numbers and decimal tenths		addressed.
		See Math Makes Sense 7 Student Text, Unit
		10, Lesson 10.4 for evaluating algebraic
		expressions.
Equalities and Inequalities		
C2.3 solve equations that involve multiple	Unit 1, Lesson 4, pages 16-18;	See Math Makes Sense 7 Student Text, Unit
terms and whole numbers in various	Games, page 23	10, Lesson 10.6 for solving equations
contexts, and verify solutions		involving variables.
C2.4 solve inequalities that involve two		Inequalities are not addressed.
operations and whole numbers up to 100.		
and verify and graph the solutions		
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C3. Coding		
Coding Skills		
C3.1 solve problems and create		Coding is not addressed.
computational representations of		
mathematical situations by writing and		
executing efficient code, including code that		
involves conditional statements and other		
control structures		
C3.2 read and alter existing code, including		Coding is not addressed.
code that involves conditional statements		
and other control structures, and describe		
how changes to the code affect the outcomes		
and the efficiency of the code		
D. Data		
D1. Data Literacy		
Data Collection and Organization		
D1.1 describe the difference between		Discrete and continuous data is not
discrete and continuous data, and provide		addressed.
examples of each		
D1.2 collect qualitative data and discrete and	Unit 5, Lesson 7, pages 197-199	Qualitative data is not addressed.
continuous quantitative data to answer		The collection of continuous data is not
questions of interest about a population, and		addressed.
organize the sets of data as appropriate,		The use of intervals is not addressed.
including using intervals		See Math Makes Sense 8 Student Text, Unit
		5, Lesson 5.5 for examples of continuous data
		and the use of intervals.
Data Visualization		
D1.3 select from among a variety of graphs,	Unit 5, Lesson 4, pages 178-181	Histograms are not addressed.
including histograms and broken-line graphs,		See Math Makes Sense 8 Student Text, Unit
graphs, the type of graph best suited to		5, Lesson 5.5 for drawing histograms.
represent various sets of data; display the		
data in the graphs with proper sources, titles,		
and labels, and appropriate scales; and justify		
their choice of graph		



D1.4 create an infographic about a data set, representing the data in appropriate ways, including in tables, histograms, and broken- line graphs, and incorporating any other relevant information that helps to tell a story about the data		Creating infographics is not addressed.
Data Analysis		
D1.5 determine the range as a measure of spread and the measures of central tendency for various data sets, and use this information to compare two or more data sets	Unit 5, Lesson 2, pages 172-175	Determining the range is not addressed. Using the measures of central tendency to compare two sets of data is not addressed. See <i>Math Makes Sense 7</i> Student Text, Unit 5, Lesson 5.5 for using the measures of central tendency to compare two or more data sets.
D1.6 analyse different sets of data presented in various ways, including in histograms and broken-line graphs, and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions	Unit 5, Lesson 1, pages 168-171; Lesson 4, pages 178-181; Lesson 6, pages 190-193	Histograms are not addressed. See <i>Math Makes Sense 8</i> Student Text, Unit 5, Lesson 5.5 for analyzing data in histograms.
D2. Probability		
Probability		
D2.1 use fractions, decimals, and percents to express the probability of events happening, represent this probability on a probability line, and use it to make predictions and informed decisions	Unit 11, Lesson 1, pages 408-411; Lesson 2, pages 412-415; Lesson 3, pages 416-419; Lesson 4, pages 420, 421; Lesson 5, pages 422-425	A probability line is not addressed. See <i>Math Makes Sense 8</i> Student Text, Unit 11, Lesson 11.1 for a probability line.
D2.2 determine and compare the theoretical and experimental probabilities of two independent events happening	Unit 11, Lesson 1, pages 408-411; Lesson 5, pages 422-425	The probability of two independent events is not addressed.



E. Spatial Sense		
E1. Geometric and Spatial Reasoning		
Geometric Reasoning		
E1.1 create lists of the geometric properties of various types of quadrilaterals, including the properties of the diagonals, rotational symmetry, and line symmetry	Unit 7, Lesson 5, pages 267-269; Lesson 6, pages 270-273	Geometric properties of quadrilaterals related to diagonals is not addressed. See <i>Math Makes Sense 5</i> Student Text, Unit 3, Lesson 4 for angle properties of quadrilaterals.
E1.2 construct three-dimensional objects when given their top, front, and side views	Unit 3, Lesson 6, pages 102-105	
Location and Movement		
E1.3 plot and read coordinates in all four quadrants of a Cartesian plane, and describe the translations that move a point from one coordinate to another	Unit 7, Lesson 1, pages 248-251	Graphing in 4 quadrants of a Cartesian plane is not addressed. See <i>Math Makes Sense 8</i> Student Text, Unit 9, Lesson 9.7 for graphing in 4 quadrants on a coordinate grid.
E1.4 describe and perform combinations of translations, reflections, and rotations up to 360° on a grid, and predict the results of these transformations	Unit 7, Lesson 2, pages 252-255	
E2. Measurement		
The Metric System		
E2.1 measure length, area, mass, and capacity using the appropriate metric units, and solve problems that require converting smaller units to larger units, and vice versa	Unit 6, Lesson 8, pages 232-235; Lesson 9, pages 238-241	Measuring length and area are not addressed. See <i>Math Makes Sense 5</i> Student Text, Unit 9, Lessons 1, 2, 5, and 6 for measuring length and area.
Angles		
E2.2 use a protractor to measure and construct angles up to 360°, and state the relationship between angles that are measured clockwise and those that are measured counterclockwise	Unit 3, Lesson 1, pages 82-85	



E2.3 use the properties of supplementary		Different types of angles are not addressed.
angles, complementary angles, opposite		See Math Makes Sense 8 Student Text, Unit
angles, and interior and exterior angles to		7, Lesson 7.1 for supplementary angles,
solve for unknown angle measures		complementary angles, and opposite angles.
Area and Surface Area		
E2.4 determine the areas of trapezoids,	Unit 9, Lesson 4, pages 352-354	The areas of trapezoids, kites, and composite
rhombuses, kites, and composite polygons by		polygons are not addressed.
decomposing them into shapes with known		See Math Makes Sense 7 Student Text, Unit
areas		6, Lessons 6.3 and 6.4 for the areas of
		trapezoids and composite polygons.
E2.5 create and use nets to demonstrate the	Unit 3, Lesson 5, pages 98-101	
relationship between the faces of prisms and		
pyramids and their surface areas	Unit 6, Lesson 5, pages 220-223	
E2.6 determine the surface areas of prisms	Unit 6, Lesson 5, pages 220-223	The surface areas of triangular prisms and
and pyramids by calculating the areas of their		pyramids are not addressed.
two-dimensional faces and adding them		See Math Makes Sense 8 Student Text, Unit
together		3, Lesson 3.3 for the surface area of a
		triangular prism.
F. Financial Literacy		
F1. Money and Finances		
Money Concepts		
F1.1 describe the advantages and		Financial literacy is not addressed.
disadvantages of various methods of		
payment that can be used to purchase goods		
and services		
Financial Management		
F1.2 identify different types of financial goals,		Financial literacy is not addressed.
including earning and saving goals, and		
outline some key steps in achieving them		
F1.3 identify and describe various factors that		Financial literacy is not addressed.
may help or interfere with reaching financial		
goals		



Consumer and Civic Awareness	
F1.4 explain the concept of interest rates,	Financial literacy is not addressed.
and identify types of interest rates and fees	
associated with different accounts and loans	
offered by various banks and other financial	
institutions	
F1.5 describe trading, lending, borrowing,	Financial literacy is not addressed.
and donating as different ways to distribute	
financial and other resources among	
individuals and organizations	