

B.C. GRADE 6 & 7 AT A GLANCE CORRELATED WITH MATH MAKES SENSE (6 Western/ 7 WNCP)

NOTE: **Text in UPPERCASE** indicates outcomes that are not met in MATH MAKES SENSE. Text in *italics* is from the suggested achievement indicators.

STRAND: NUMBER

GENERAL OUTCOME: Develop number sense.

Grade 6 Use Unit and Cumulative Reviews Selectively

Grade 6 Prescribed Learning Outcomes	MMS 6 Western Meets	Exceeds	Grade 7 Prescribed Learning Outcomes	MMS 7 Meets (WNCP)
A1 Demonstrate an understanding of place value for numbers: (a) greater than one million (b) LESS THAN ONE THOUSANDTH.	Unit 2 Launch, Lesson 1 to 3 Unit 4 Launch, Lesson 1, World of Work p. 127, Game p. 148, Unit Problem; limited	Unit 2 Lesson 6 exponents	May be reviewed but do not assess	
A2 SOLVE PROBLEMS INVOLVING LARGE NUMBERS, USING TECHNOLOGY.	Unit 9, Lesson 3 and Unit 2, Lessons 8, 9 and Unit Problem review earlier grade outcomes			
A3 Demonstrate an understanding of factors and multiples <i>(concretely, pictorially and symbolically)</i> by: (a) determining multiples & factors of numbers less than 100 (b) identifying prime and composite numbers (c) solving problems involving multiples.	Unit 2 Lessons 4, 5, 7, Game p. 57 Unit 5 Lesson 3 See MMS 5 Unit 2 Lesson 2	Unit 2 Lessons 10 to 12 3 digit multipliers, 2 digit divisors		
May be explored informally but do not assess			A1 Determine and explain why a number is divisible by 2, 3, 4, 5, 6, 8, 9 or 10 and why a number cannot be divided by 0.	Unit 1: 1.1, 1.2 Investigation p. 174-175
A4 Relate improper fractions to mixed numbers <i>(using models)</i> .	Unit 8 Lessons 2, 3, 10 Lesson 1 reviews equivalent fractions See MMS 5 Unit 8 Lesson 2	Unit 8 Technology p. 289 convert mixed numbers	A7 Compare and order positive fractions, positive decimals (to 1000ths) and whole numbers, by using: (a) benchmarks (b) place value (c) equivalent fractions and /or decimals	Unit 3: 3.2, 3.7 Unit 5 Reading & Writing in Math p. 211-212
May be explored informally but do not assess			A4 Demonstrate an understanding of the relationship between positive repeating decimals and positive fractions, and positive terminating decimals and positive fractions.	Unit 3: 3.1
			A5 Demonstrate an understanding of adding and subtracting positive fractions and mixed numbers, with like and unlike denominators, concretely, pictorially and symbolically (limited to positive sums and differences).	Unit 5: 5.1 to 5.7 World of Work p. 209 Reading & Writing in Math p. 211 Unit 5 Problem
A5 Demonstrate an understanding of ratio, concretely, pictorially and symbolically.	Unit 8 Lessons 7, 8	Unit 8 Lesson 9 rates	May be reviewed but do not assess	
A6 Demonstrate an understanding of percent (limited to whole numbers), concretely, pictorially and symbolically.	Unit 8 Launch, Lessons 4 to 6, Unit Problem		A3 Solve problems involving percent from 1% to 100%.	Unit 3: 3.7, 3.8 World of Work p. 117 Unit 3 Problem
A7 Demonstrate an understanding of integers, concretely, pictorially and symbolically.	Unit 1 Lesson 5 limited		A6 Demonstrate an understanding of addition and subtraction of integers, concretely, pictorially and symbolically.	Unit 2: 2.1, 2.2, 2.3, 2.4, 2.5 Reading & Writing in Math p. 76-77 Unit 2 Problem Unit 8 Investigation p. 340-341
A8 Demonstrate an understanding of multiplication and division of decimals (1-digit whole number multipliers and 1-digit natural number divisors).	Unit 4 Lessons 10 to 12, Unit Problem; Lessons 2 to 6 review fractions and decimals	Unit 4 Lessons 7 to 9, World of Work p. 127 multi-digit multipliers and divisors	A2 Demonstrate an understanding of the addition, subtraction, multiplication and division of decimals (for more than 1-digit divisors or 2-digit multipliers, the use of technology is expected) to solve problems.	Unit 3: 3.3, 3.4, 3.5, 3.6 Reading & Writing in Math p. 118-119
A9 Explain and apply the order of operations, excluding exponents, with and without technology (limited to whole numbers).	Unit 1 Lesson 3 limited		May be reviewed but do not assess	

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STRAND: STATISTICS & PROBABILITY (DATA ANALYSIS)

General Outcome: Collect, display and analyze data to solve problems. Grade 6 Use Unit and Cumulative Reviews Selectively

Grade 6 Prescribed Learning Outcomes	MMS 6 Western Meets	Exceeds	Grade 7 Prescribed Learning Outcomes	MMS 7 Meets (WNCP)
D1 Construct, label and interpret line graphs to draw conclusions.	Unit 5 Lesson 1 limited Unit 9 Unit Problem limited Unit 10 Lesson 4 Unit 5 Lesson 5 reviews double bar graphs See MMS 5 Unit 5 Lessons 4	Unit 5 Launch, Lessons 4, 6 to 8, Unit Problem stem-and-leaf plots, histograms, scatter plots, sample, population	D3 Construct, label and interpret circle graphs to solve problems.	Unit 4: 4.6, 4.7 Technology p. 165 Reading & Writing in Math p. 290-291
D2 SELECT, JUSTIFY AND USE APPROPRIATE METHODS OF COLLECTING DATA, INCLUDING: (a) QUESTIONNAIRES (b) EXPERIMENTS (c) databases (d) ELECTRONIC MEDIA.	Unit 5 Technology p. 202 databases only		May be reviewed but do not assess	
D3 Graph collected data and analyze the graph to solve problems.	Unit 10 Lesson 4, Unit Problem			
May be explored informally but do not assess		Unit 5 Lesson 2 median Cross Strand p. 404-405 median, mean	D1 Demonstrate an understanding of central tendency and range by: (a) determining the measures of central tendency (mean, median, mode) and range (b) determining the most appropriate measures of central tendency to report findings.	Unit 7: 7.1, 7.2, 7.4 Technology p. 276-277 Reading & Writing in Math p. 290-291
			D2 Determine the effect on the mean, median and mode when an outlier is included in a data set.	Unit 7: 7.3 Technology p. 276-277 Reading & Writing in Math p. 290-291

STRAND: STATISTICS & PROBABILITY (CHANCE AND UNCERTAINTY)

General Outcome: Use experimental or theoretical probabilities to represent & solve problems involving uncertainty.

D4 Demonstrate an understanding of probability (<i>with and without technology</i>) by: (a) identifying all possible outcomes of a probability experiment (b) differentiating between experimental & theoretical probability (c) determining the theoretical probability of outcomes in a probability experiment (d) determining the experimental probability of outcomes in a probability experiment (e) comparing experimental results with the theoretical probability for an experiment.	Unit 11 Launch, Lessons 1, 4, Unit Problem (do not express probability as a fraction or percent) Cross Strand p. 274-275 do not assess drawing nets	Unit 11 Lessons 2, 3, 5 express probability as a fraction or percent	D4 Express probabilities as ratios, fractions and percents.	Unit 7: 7.5 Reading & Writing in Math p. 290-291
	See Unit 11 in MMS 3 to 5		D5 Identify the sample space (where the combined sample space has 36 or fewer elements) for a probability experiment involving two independent events.	Unit 7: 7.6 Unit 7 Problem Reading & Writing in Math p. 290-291
			D6 Conduct a probability experiment to compare the theoretical probability (determined using a tree diagram, table or other graphic organizer) and experimental probability of two independent events (<i>with and without technology</i>).	Unit 7: 7.6 Game p. 289 Unit 7 Problem Reading & Writing in Math p. 290-291 Unit 8 Investigation p. 340-341

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STRAND: PATTERNS AND RELATIONS (PATTERNS)

General Outcome: Use patterns to describe the world and solve problems. Grade 6 Use Unit and Cumulative Reviews Selectively

Grade 6 Prescribed Learning Outcomes	MMS 6 Western Meets	Exceeds	Grade 7 Prescribed Learning Outcomes	MMS 7 Meets (WNCP)
B1 Demonstrate an understanding of the relationships within tables of values to solve problems (<i>concretely, pictorially and symbolically</i>).	Unit 1 Lesson 1 Unit Problem Unit 7 Lesson 7 Unit 10 Lessons 1 to 4		May be reviewed but do not assess	
B2 Represent and describe patterns and relationships using graphs and tables.	Unit 10 Launch, Lessons 1 to 4, Unit Problem Cross Strand p. 2-3, p. 112-113; Unit 1 Lesson 2 reviews	Unit 10 Lesson 6 test-taking strategies		
May be explored informally but do not assess			B1 Demonstrate an understanding of oral and written patterns and their equivalent linear relations.	Unit 1: 1.3, 1.4, 1.5 Unit 1 Problem
			B2 Create a table of values from a linear relation, graph the table of values and analyze the graph to draw conclusions to solve problems.	Unit 1: 1.5, 1.6 Unit 1 Problem

STRAND: PATTERNS & RELATIONS (VARIABLES & EQUATIONS)

General Outcome: Represent algebraic expressions in multiple ways.

B3 Represent generalizations arising from number relationships using equations with letter variables.	Unit 6 Lessons 2 to 4 variables in formulas only Unit 10 Lesson 5 limited Unit 1 Lesson 4, Game p.23 reviews earlier grade outcomes	Unit 1 Lesson 6 more than one unknown	B5 Evaluate an expression given the value of the variable(s).	Unit 1: 1.3, 1.4, 1.5 Unit 6 Problem
B4 DEMONSTRATE AND EXPLAIN THE MEANING OF PRESERVATION OF EQUALITY CONCRETELY, PICTORIALY AND SYMBOLICALLY.			B3 Demonstrate and explain the meaning of preservation of equality by: (a) modeling preservation of equality concretely, pictorially, and symbolically (b) applying preservation of equality to solve equations.	Unit 6: 6.2, 6.3, 6.4, 6.5
May be explored informally but do not assess			B4 Explain the difference between an expression and an equation.	Unit 1: 1.6, 1.7
			B6 Model and solve problems that can be represented by one-step linear equations of the form $x + a = b$, concretely, pictorially and symbolically, where a and b are integers.	Unit 6: 6.3, 6.5
			B7 Model and solve problems that can be represented by linear equations of the form: $ax + b = c$ $ax = b$ $\frac{x}{a} = b \quad a \neq 0$ concretely, pictorially and symbolically, where a , b and c are whole numbers.	Unit 1: 1.8 Unit 1 Problem Unit 6: 6.1, 6.2, 6.4, 6.5

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STRAND: SHAPE AND SPACE (MEASUREMENT)

General Outcome: Use direct or indirect measurement to solve problems. Grade 6 Use Unit and Cumulative Reviews Selectively

Grade 6 Prescribed Learning Outcomes	MMS 6 Western Meets	Exceeds	Grade 7 Prescribed Learning Outcomes	MMS 7 Meets (WNCP)
C1 Demonstrate an understanding of angles by: (a) IDENTIFYING EXAMPLES OF ANGLES IN THE ENVIRONMENT (b) classifying angles according to their measure (c) estimating the measure of angles using 45°, 90° AND 180° as reference angles (d) determining angle measures in degrees (e) drawing & labelling angles when the measure is specified.	Unit 3 Launch, Lessons 1, 2, 4, 5, Unit Problem Unit 3 Lesson 8 reviews drawing solids	Unit 3 Lessons 6, 7 similar figures, optical illusions	C1 Demonstrate an understanding of circles by: (a) describing the relationships among radius, diameter and circumference of circles (b) relating circumference to pi (c) determining the sum of the central angles (d) constructing circles with a given radius or diameter (e) solving problems involving the radii, diameters and circumferences of circles.	Unit 4: 4.1, 4.2, 4.7 Game p. 153 Unit 4 Problem
C2 DEMONSTRATE THAT THE SUM OF INTERIOR ANGLES IS: (a) 180° IN A TRIANGLE (b) 360° IN A QUADRILATERAL.			May be reviewed but do not assess	
C3 Develop and apply a formula for determining the: (a) perimeter of polygons (b) area of rectangles (c) volume of right rectangular prisms.	Unit 6 All lessons Unit 9 Launch, Lessons 2, 4, World of Work p. 342, Game p. 343, Unit Problem; do not assess parallelogram formula Lesson 5 reviews grade 5 outcomes (volume and capacity).	Unit 9 Lessons 1, 6 surface area, tonnes	C2 Develop and apply a formula for determining the area of: (a) triangles (b) parallelograms (c) circles.	Unit 4: 4.3, 4.4, 4.5 Game p. 153 Unit 4 Problem

STRAND: SHAPE AND SPACE (3-D OBJECTS & 2-D SHAPES)

General Outcome: Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.

C4 Construct and compare triangles in different orientations including: (a) scalene (b) isosceles (c) equilateral (d) right (e) obtuse (f) acute.	Unit 3 Lesson 3 limited See MMS 5 Unit 3 Launch, Lesson 2, Unit Problem		May be reviewed but do not assess	
May be explored informally but do not assess			C3 Perform geometric constructions including: (a) perpendicular and (b) parallel line segments (c) perpendicular and (d) angle bisectors.	Unit 8: 8.1, 8.2, 8.3, 8.4 Unit 8 Problem
C5 Describe and compare the sides and angles of regular and irregular polygons.	Unit 7 Lesson 3 limited Unit 7, Lessons 5 and 6 review symmetry	Unit 7 Lesson 4 similar figures	May be reviewed but do not assess	

STRAND: SHAPE AND SPACE (TRANSFORMATIONS)

General Outcome: Describe and analyze position and motion.

C6 Perform a combination of translation(s), rotation(s) and/or reflection(s) on a single 2-D shape, with and without technology, and draw and describe the image.	Unit 7 Launch, Lessons 1, 2, 8, World of Work p. 262		May be reviewed but do not assess	
C7 Perform a combination of successive transformations of 2-D shapes to create a design, and identify and describe the transformations.	Unit 7 Lesson 8, Unit Problem			
C8 IDENTIFY AND PLOT POINTS IN THE FIRST QUADRANT OF A CARTESIAN PLANE USING WHOLE NUMBER ORDERED PAIRS.	See MMS 5 Unit 7 Lesson 7		C4 Identify and plot points in the four quadrants of a Cartesian plane using integral ordered pairs.	Unit 8: 8.5, 8.6, 8.7 Technology p. 330-331 Unit 8 Problem
C9 Perform and describe single transformations of a 2-D shape in the first quadrant of a Cartesian plane (limited to whole number vertices).	Unit 7 Lessons 1, 2		C5 Perform and describe transformations (translations, rotations or reflections) of a 2-D shape in all 4 quadrants of a Cartesian plane (limited to integral number vertices).	Unit 8: 8.6, 8.7 Technology p. 330-331 Unit 8 Problem