

WNCP B.C. GRADE 6 AT A GLANCE CORRELATED WITH MATH MAKES SENSE (WESTERN)

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.

Use Unit and Cumulative Reviews Selectively

Grade 6 Prescribed Learning Outcomes	MMS 6 Meets	Exceeds	Additional Notes
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 limited Unit 4 Launch, Lesson 1, World of Work p. 127, Game p. 148, Unit Problem limited	Unit 2 Lesson 6 exponents	Unit 4, Lessons 2 and 3 review gr. 5 outcomes (thousandths in fraction and decimal form). Unit 9 Lesson 3 reviews earlier grade outcomes (problem solving with money).
A2 SOLVE PROBLEMS INVOLVING LARGE NUMBERS, USING TECHNOLOGY.		Unit 2 Lessons 10 to 12 3 digit multipliers, 2 digit divisors	Unit 2 Lessons 8, 9 and Unit Problem review grade 4 and 5 outcomes (multiplying, adding and subtracting whole numbers).
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 (Prime and Composite Numbers). Provide opportunities for students to <i>explain why 0 and 1 are neither prime nor composite.</i>
A4 Relate improper fractions to mixed numbers (<i>using models</i>).	Unit 8 Lessons 2, 3, 10 Lesson 1 reviews equivalent fractions	Unit 8 Technology p. 289 convert mixed numbers to decimals	See MMS 5 Unit 8 Lessons 2 (Fractions and Mixed Numbers).
A5 Demonstrate an understanding of ratio, concretely, pictorially and symbolically.	Unit 8 Lessons 7, 8	Unit 8 Lesson 9 rates	
A6 Demonstrate an understanding of percent (limited to whole numbers), concretely, pictorially and symbolically.	Unit 8 Launch, Lessons 4 to 6, Unit Problem		
A7 Demonstrate an understanding of integers, concretely, pictorially and symbolically.	Unit 1 Lesson 5 limited		Provide opportunities for students to <i>compare and order integers.</i>

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STRAND: NUMBER (continued)

General Outcome: Develop number sense.

Use Unit and Cumulative Reviews Selectively

Grade 6 Prescribed Learning Outcomes	MMS 6 Meets	Exceeds	Additional Notes
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	Unit 4 Lessons 7 to 9, World of Work p. 127 multi-digit multipliers and divisors	Unit 4 Lessons 4 to 6 review comparing, ordering, adding and subtracting decimals. Provide opportunities for students to <i>place the decimal in a product or quotient using front-end estimation.</i>
A9 Explain and apply the order of operations, excluding exponents, with and without technology (limited to whole numbers).	Unit 1 Lesson 3 limited		

STRAND: STATISTICS & PROBABILITY (DATA ANALYSIS)

General Outcome: Collect, display and analyze data to solve problems.

Grade 6 Prescribed Learning Outcomes	MMS 6 Meets	Exceeds	Additional Notes
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	Unit 5 Launch, Lessons 2, 4, 6 to 8, Unit Problem median, stem-and-leaf plots, histograms, scatter plots, sample, population	See MMS 5 Unit 5 Lesson 4 (broken-line graphs). Provide opportunities for students to <i>determine whether a given set of data can be represented by a line graph (continuous data) or a series of points (discrete data) and explain why.</i>
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	population Cross Strand p. 404-405 mean, median	
D3 Graph collected data and analyze the graph to solve problems.	Unit 10 Lesson 4, Unit Problem		

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	This is the first year for probability outcomes. See Unit 11 in MMS 3, 4, and 5 (Probability).
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STRAND: PATTERNS AND RELATIONS (PATTERNS)

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

Grade 6 Prescribed Learning Outcomes	MMS 6 Meets	Exceeds	Additional Notes
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		Unit 1 Launch and Lesson 2 (Solving Equations) review earlier grade level outcomes.
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 10 Lesson 6 focuses on test-taking strategies common to other disciplines.

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 6 more than one unknown	Unit 1, Lesson 4 and Game p. 23 review grade 4 and 5 outcomes. Provide opportunities for students to <i>represent a pattern rule using a simple mathematical expression such as $4d$ or $2n + 1$.</i>
B4 DEMONSTRATE AND EXPLAIN THE MEANING OF PRESERVATION OF EQUALITY CONCRETELY, PICTORIALY AND SYMBOLICALLY.			

STRAND: SHAPE AND SPACE (MEASUREMENT)

General Outcome: Use direct or indirect measurement to solve problems.

Grade 6 Prescribed Learning Outcomes	MMS 6 Meets	Exceeds	Additional Notes
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 Lessons 6, 7 similar figures, optical illusions	Unit 3 Lesson 8 reviews grade 5 outcomes (drawing solids).
C2 DEMONSTRATE THAT THE SUM OF INTERIOR ANGLES IS: (a) 180° IN A TRIANGLE (b) 360° IN A QUADRILATERAL.			
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 Launch, Lessons 1 to 6, Unit Problem Unit 9 Launch, Lessons 2, 4, World of Work p. 342, Game p. 343, Unit Problem; do not assess parallelogram formula	Unit 9 Lessons 1, 6 surface area, tonnes	Unit 9 Lesson 5 reviews grade 5 outcomes (volume and capacity).

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STRAND: SHAPE AND SPACE (3-D OBJECTS & 2-D SHAPES) Use Unit and Cumulative Reviews Selectively

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

Grade 6 Prescribed Learning Outcomes	MMS 6 Meets	Exceeds	Additional Notes
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 focus is on right, obtuse and acute triangles		See MMS 5 Unit 3 Launch, Lesson 2 (Constructing Triangles) and Unit Problem.
C5 Describe and compare the sides and angles of regular and irregular polygons.	Unit 7 Lesson 3 limited focus is on congruency	Unit 7 Lesson 4 similar figures	Unit 7, Lessons 5 and 6 review grade 4 outcomes (symmetry). Provide opportunities for students to <i>sort a given set of 2-D shapes into polygons and non-polygons and as regular or irregular and justify the sorting</i> .

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		
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 (Coordinate Grids).
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		It is assumed that students have been introduced to the first quadrant of a Cartesian plane.