



Correlation to WNCP Curriculum and Grade 8 Classroom Resources

Note: Leaps and Bounds 7/8 is a math intervention resource and therefore does not include new content and concepts being introduced to students for the first time in Grade 8. Leaps and Bounds 7/8 includes content from Grades 5 to 7 that will prepare students who are struggling for work at the Grade 7 or 8 level.

GRADE 8 Co	re Resources Grade 8 WNCE			INTERVENTION Resources and Outcomes Correlation between Leaps and Bounds 7/8 and prerequisite outcomes from WNCP Grades 5 to 7.					
Grade 8 WNCP outcomes	Nelson Math Focus 8	Math Makes Sense 8	MathLinks 8	Leaps and Bounds 7/8 Topics	Grade 7 WNCP outcomes	Grade 6 WNCP outcomes	Grade 5 WNCP outcomes		
Number				Representing Large Whole Numbers Pathway 1: Using Decimals for Large Whole Numbers Pathway 2: Representing Millions and Billions Pathway 3: Representing Six-Digit Numbers	 7. Compare and order positive fractions, positive decimals (to thousandths) and whole numbers by using: benchmarks place value equivalent fractions and/or decimals. [CN, R, V] 	 Demonstrate an understanding of place value for numbers: greater than one million less than one thousandth. [C, CN, R, T] Solve problems involving large numbers, using technology. 	1. Represent and describe whole numbers to 1 000 000. [C, CN, V, T]		
				Whole Number OperationsPathway 1: Order of OperationsPathway 2: Dividing WholeNumbersPathway 3: Multiplying WholeNumbersRelating Situations to OperationsPathway 1: Recognizing DivisionSituationsPathway 2: RecognizingMultiplication SituationsPathway 3: RecognizingSubtraction SituationsSubtraction Situations		 IVIE, FS, TJ Solve problems involving large numbers, using technology. [ME, PS, T] Explain and apply the order of operations, excluding exponents, with and without technology (limited to whole numbers). [CN, ME, PS, T] 	 Use estimation strategies, including: front-end rounding compensation compatible numbers in problem-solving contexts. [C, CN, ME, PS, R, V] Apply mental mathematics strategies and number properties, such as: skip counting from a known fact 		

			 using doubling or
			halving
			 using patterns in the
			9s facts
			 using repeated
			doubling or halving
			to determine answers
			for basic
			multiplication facts to
			81 and related division
			facts. [C, CN, ME, K,
			V]
			(See Leaps and Bounda 5/6)
			Bounas 5/0.)
			4. Apply mental
			mathematics strategies
			for multiplication,
			such as:
			 annexing then adding
			zero
			 halving and doubling
			• using the distributive
			property. [C, ME, R]
			5. Demonstrate an
			understanding of
			multiplication (2-digit
			by 2-digit) to solve
			problems.
			[C, CN, PS, V]
			6 Demonstrate with
			and without concrete
			materials an
			understanding of
			division (3-digit by 1-
			digit) and interpret
			remainders to solve
			problems. [C, CN, PS]

Grade 8	Nelson	Math Makes	MathLinks	Leaps and Bounds 7/8 Topics	Grade 7	Grade 6	Grade 5
WNCP	Math Focus 8	Sense 8	8		WNCP outcomes	WNCP outcomes	WNCP outcomes
outcomes	Focus 8			Representing and Comparing Decimals Pathway 1: Decimals with Many Places Pathway 2: Comparing Decimals Pathway 3: Representing Decimal Thousandths Pathway 4: Multiplying and Dividing by 10s	 4. Demonstrate an understanding of the relationship between positive repeating decimals and positive fractions, and positive terminating decimals and positive fractions. [C, CN, R, T] 7. Compare and order positive fractions, positive decimals (to thousandths) and whole numbers by using: benchmarks place value equivalent fractions and/or decimals. [CN, R, V] 	 Demonstrate an understanding of place value for numbers: greater than one million less than one thousandth. [C, CN, R, T] 	 8. Describe and represent decimals (tenths, hundredths, thousandths) concretely, pictorially and symbolically. [C, CN, R, V] 9. Relate decimals to fractions (to thousandths). [CN, R, V] 10. Compare and order decimals (to thousandths), by using: benchmarks place value equivalent decimals. [CN, R, V]
				Decimal OperationsPathway 2: Dividing Decimals byWhole NumbersPathway 3: Multiplying withDecimalsPathway 4: Adding and SubtractingDecimals (See also Leaps andBounds 5/6.)Relating Situations to OperationsPathway 1: Recognizing DivisionSituationsPathway 2: RecognizingMultiplication SituationsPathway 3: RecognizingSubtraction SituationsSubtraction SituationsSubtraction Situations	2. 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. [ME, PS, T]	8. Demonstrate an understanding of multiplication and division of decimals (1- digit whole number multipliers and 1-digit natural number divisors). [C, CN, ME, PS, R, V]	11. Demonstrate an understanding of addition and subtraction of decimals (limited to thousandths). [C, CN, PS, R, V]

Grade 8 WNCP	Nelson Math Focus 8	Math Makes Sense 8	MathLinks 8	Leaps and Bounds 7/8 Topics	Grade 7 WNCP outcomes	Grade 6 WNCP outcomes	Grade 5 WNCP
outcomes							outcomes
1. Demonstrate an understanding of perfect squares and square roots, concretely, pictorially and symbolically (limited to whole numbers). [C, CN, R, V]	Chapter 1: Lessons 1.1, 1.2, 1.3, 1.4, 1.5, 1.7, Curious Math, Math Game, Chapter Task	Unit 1, Lessons 1.1, 1.2, 1.3, 1.4, Game, Technology, 1.5, 1.7, Unit Problem	Chapter 3: 3.1, 3.3 Wrap It Up! Math Games Challenge in Real Life: Building a Staircase Chapters 1–4 Review	Multiplicative Relationships Pathway 1: Divisibility Rules Pathway 2: Prime Numbers and Perfect Squares Pathway 3: Factors and Multiples	1. 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. [C, R]	 3. Demonstrate an understanding of factors and multiples by: determining multiples and factors of numbers less than 100 identifying prime and composite numbers 	
2. Determine the approximate square root of numbers that are not perfect squares (limited to whole numbers). [C, CN, ME, R, T]						• solving problems involving multiples. [PS, R, V]	
3. Demonstrate an understanding of percents greater than or equal to 0%. [CN, PS, R, V]	Chapter 4: Lessons 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, Math Game, Curious Math, Chapter Self-Test, Chapter Review, Chapter Task	Unit 5, Lessons 5.1, 5.2, 5.3, 5.4	Chapter 4: 4.1–4.4 Wrap It Up! Math Games Challenge in Real Life: The Buying and Selling Game Chapters 1–4 Review Task: Test the Efficiency of a Ramp	Rates, Percents, and Ratios Pathway 2: Using Percents	3. Solve problems involving percents from 1% to 100%. [C, CN, PS, R, T]	6. Demonstrate an understanding of percent, (limited to whole numbers) concretely, pictorially and symbolically. [C, CN, PS, R, V]	
4. Demonstrate an understanding of ratio and rate. [C, CN, V]	Chapter 3: Lessons 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, Math Game, Curious Math, Chapter Self-Test, Chapter Review, Chapter Task Chapter 4: Lessons 4.1, Chapter Review	Unit 5, Lessons 5.5, 5.6, Game, 5.7, 5.8, 5.9, 5.10, Unit Problem	Chapter 2: 2.1–2.2 Wrap It Up! Math Games Challenge in Real Life: Life of a Bush Pilot Chapters 1–4 Review Task: Test the Efficiency of a Ramp Task: Put Out a Forest Fire	Rates, Percents, and Ratios Pathway 1: Using Rates (Grade 8 WNCP) Pathway 2: Using Percents Pathway 3: Using Ratios Relating Situations to Operations Pathway 2: Recognizing Multiplication Situations	2. 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. [ME, PS, T]	5. Demonstrate an understanding of ratio, concretely, pictorially and symbolically. [C, CN, PS, R, V]	

Grade 8 WNCP	Nelson Math Focus 8	Math Makes Sense 8	MathLinks 8	Leaps and Bounds 7/8 Topics	Grade 7 WNCP outcomes	Grade 6 WNCP	Grade 5 WNCP
5. Solve problems that involve rates, ratios and proportional reasoning. [C, CN, PS, R]	Chapter 3: Lessons 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, Curious Math, Chapter Self-Test, Chapter Review, Chapter Task Chapter 4: Lessons 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, Curious Math, Chapter Self-Test, Chapter Review, Chapter Task	Unit 5, Lessons 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, Unit Problem	Chapter 2: 2.1–2.3 Wrap It Up! Challenge in Real Life: Life of a Bush Pilot Chapters 1–4 Review Challenge in Real Life: Treasure Hunt Task: Put Out a Forest Fire	Rates, Percents, and Ratios Pathway 1: Using Rates (Grade 8 WNCP) Pathway 2: Using Percents Pathway 3: Using Ratios	3. Solve problems involving percents from 1% to 100%. [C, CN, PS, R, T]	5. Demonstrate an understanding of ratio, concretely, pictorially and symbolically. [C, CN, PS, R, V] 6. Demonstrate an understanding of percent, (limited to whole numbers) concretely, pictorially and symbolically. [C, CN, PS, R, V]	outcomes
6. Demonstrate an understanding of multiplying and dividing positive fractions and mixed numbers, concretely, pictorially and symbolically. [C, CN, ME, PS]	Chapter 2: Lessons 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 2.10, 2.11, Math Game, Chapter Self-Test, Chapter Review, Chapter Task	Unit 3, Lessons 3.1, 3.2, 3.3, 3.4, Game, 3.5, 3.6, 3.7, 3.8, 3.9, Unit Problem	Chapter 6: 6.1–6.6 Wrap It Up! Math Games Challenge in Real Life: Rock, Paper, Scissors Task: Fraction Cubes Challenge in Real Life: Treasure Hunt Chapters 5–8 Review	Comparing Fractions Pathway 1: Fractions and Mixed Numbers Pathway 2: Proper Fractions Pathway 3: Equivalent Fractions Fraction Operations Pathway 1: Repeated Addition of Fractions Pathway 2: Adding and Subtracting Mixed Numbers Pathway 3: Subtracting Fractions Pathway 4: Adding Fractions	 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). [C, CN, ME, PS, R, V] Compare and order positive fractions, positive decimals (to thousandths) and whole numbers by using: benchmarks place value equivalent fractions and/or decimals. [CN, R, V] 	4. Relate improper fractions to mixed numbers. [CN, ME, R, V]	 7. Demonstrate an understanding of fractions by using concrete and pictorial representations to: create sets of equivalent fractions compare fractions with like and unlike denominators [C, CN, PS, R, V]

Grade 8 WNCP outcomes	Nelson Math Focus 8	Math Makes Sense 8	MathLinks 8	Leaps and Bounds 7/8 Topics	Grade 7 WNCP outcomes	Grade 6 WNCP outcomes	Grade 5 WNCP outcomes
7. Demonstrate an understanding of multiplication and division of integers, concretely, pictorially and symbolically. [C, CN, PS, R, V]	Chapter 6: Lessons 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, Curious Math, Math Game, Chapter Self-Test, Chapter Review, Chapter Task	Unit 2, Lessons 2.1, 2.2, Game, 2.3, 2.4, 2.5, Unit Problem	Chapter 8: 8.1–8.5 Wrap It Up! Math Games Challenge in Real Life: Running a Small Business Challenge in Real Life: The Earth's Core Chapters 5–8 Review	Integers Pathway 1: Subtracting Integers Pathway 2: Adding Integers Pathway 3: Representing and Comparing Integers	6. Demonstrate an understanding of addition and subtraction of integers, concretely, pictorially and symbolically. [C, CN, PS, R, V]	7. Demonstrate an understanding of integers, concretely, pictorially and symbolically. [C, CN, R, V]	
Patterns and Rela	tions (Patterns)						
1. Graph and analyze two- variable linear relations. [C, ME, PS, R, T, V]	Chapter 9: Lessons 9.1, 9.2, 9.3, 9.4, Curious Math, Chapter Self-Test, Chapter Review, Chapter Task	Unit 6, Lessons 6.6, 6.7, Technology Lesson, Unit Problem	Chapter 9: 9.1–9.3 Wrap It Up! Math Games Challenge in Real Life: Comparing Wages Challenge in Real Life: The Earth's Core Chapters 9–12 Review	Patterns Pathway 1: Linear Relations Pathway 2: Representing Patterns Pathway 3: Exploring Simple Patterns	 Demonstrate an understanding of oral and written patterns and their equivalent linear relations. [C, CN, R] Create a table of values from a linear relation, graph the table of values, and analyze the graph to draw conclusions and solve problems [C, CN, R, V] 	 Demonstrate an understanding of the relationship within tables of values to solve problems. [C, CN, PS, R] Represent and describe patterns and relationships using graphs and tables. [C, CN, ME, PS, R, V] 	1. Determine the pattern rule to make predictions about subsequent elements [C, CN, PS, R, V]
Patterns and Rela	tions (Variables ar	nd Equations)					
2. Model and solve problems using linear equations of the form: • $ax = b$ • $\frac{x}{a} = b$, $a \neq 0$ • $ax + b = c$ • $\frac{x}{a} + b = c$, $a \neq 0$	Chapter 9: Lessons 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, Math Game, Chapter Self-Test, Chapter Review, Chapter Task	Unit 6, Lesson 6.1, 6.2, 6.3, 6.4, 6.5, Game, Unit Problem	Math Games Chapter 10: 10.1– 10.4 Wrap It Up! Math Games Challenge in Real Life: The Earth's Core Chapters 9–12 Review	Algebra Pathway 1: Solving Problems Using Equations Pathway 2: Solving Simple Equations Pathway 3: Using Variables	 3. Demonstrate an understanding of preservation of equality by: modelling preservation of equality, concretely, pictorially and symbolically applying preservation of equality to solve 	 3. Represent generalizations arising from number relationships using equations with letter variables. [C, CN, PS, R, V] 4. Demonstrate and explain the meaning of 	2. Solve problems involving single- variable, one-step equations with whole number coefficients and whole number solutions. [C, CN, PS, R]

Leaps and Bounds 7/8 Correlation to WNCP Mathematics Curriculum and Grade 8 classroom resources

• $a(x + b) = c$ concretely, pictorially and symbolically, where <i>a</i> , <i>b</i> and <i>c</i> are integers. [C, CN, PS, V]			equations. [C, CN, PS, R, V] 4. Explain the difference between an expression and an equation. [C, CN]	preservation of equality concretely, pictorially and symbolically. [C, CN, PS, R, V]	
			5. Evaluate an expression given the value of the variable(s). [CN, R]		
			6. Model and solve problems that can be represented by one- step linear equations of the form $x + a = b$, concretely, pictorially and symbolically, where <i>a</i> and <i>b</i> are integers. [CN, PS, R, V]		
			7. Model and solve problems that can be represented by linear equations of the form: • $ax + b = c$ • $ax = b$		
			• $\frac{x}{a} = b$, $a \neq 0$ concretely, pictorially and symbolically, where <i>a</i> , <i>b</i> and <i>c</i> are whole numbers. [CN, PS, R, V]		

Grade 8 WNCP	Nelson Math Focus 8	Math Makes Sense 8	MathLinks 8	Leaps and Bounds 7/8 Topics	Grade 7 WNCP	Grade 6 WNCP outcomes	Grade 5 WNCP
Shape and Space	(Measurement)				outcomes		outcomes
1. Develop and apply the Pythagorean theorem to solve problems. [CN, PS, R, V, T]	Chapter 1: Lessons 1.6, 1.7, Chapter Task	Unit 1, Lessons 1.5, Technology Lesson, 1.6, 1.7, Unit Problem	Chapter 3: 3.2, 3.4– 3.5 Wrap It Up! Challenge in Real Life: Building a Staircase Chapters 1–4 Review Task: Test the Efficiency of a Ramp				
2. Draw and construct nets for 3- D objects. [C, CN, PS, V]	Chapter 5: Lessons 5.1, 5.2, Curious Math, Chapter Task	Unit 4, Lessons 4.1, 4.2, 4.3, 4.4, 4.7	Chapter 5: 5.2–5.4 Wrap It Up! Challenge in Real Life: Design a Bedroom Chapters 5–8 Review Task: Fraction Cubes	3-D Shapes <i>Pathway 3</i> : Using Nets (Grade 8 WNCP)			
				Angles Pathway 1: Sum of Angle Measures in Polygons Pathway 2: Drawing Angles Pathway 3: Measuring Angles		 Demonstrate an understanding of angles by: identifying examples of angles in the environment classifying angles according to their measure estimating the measure of angles using 45°, 90° and 180° as reference angles determining angle measures in degrees drawing and labelling angles when the measure is specified. [C, CN, ME, V] Demonstrate that the sum of interior angles is: 180° in a triangle 360° in a quadrilateral. [C, R] 	

Grade 8	Nelson	Math Makes	MathLinks 8	Leaps and Bounds 7/8	Grade 7	Grade 6	Grade 5
WNCP	Math Focus 8	Sense 8		Topics	WNCP	WNCP outcomes	WNCP
3. Determine the surface area of: • right rectangular prisms • right triangular prisms • right cylinders to solve problems. [C, CN, PS, R, V]	Chapter 5: Lessons 5.3, 5.4, 5.7, Math Game, Chapter Task	Unit 4, Lessons 4.3, 4.4, 4.7, Unit Problem	Chapter 5: 5.3–5.4 Wrap It Up! Math Games Challenge in Real Life: Design a Bedroom Chapters 5–8 Review	Area and Perimeter Pathway 1: Area of Circles Pathway 2: Circumference of Circles Pathway 4: Area of Parallelograms and Triangles Pathway 5: Area and Perimeter of Rectangles Volume and Surface Area Pathway 2: Surface Area of Prisms (Grade 8 WNCP) Metric Units Pathway 1: Renaming Units Pathway 2: Selecting a Unit	 Demonstrate an understanding of circles by describing the relationships among radius, diameter and circumference of circles relating circumference to pi determining the sum of the central angles constructing circles with a given radius or diameter solving problems involving the radii, diameters and circumferences of circles. [C, CN, R, V] Develop and apply a formula for determining the area of triangles parallelograms circles. [CN, PS, R, V] 	 3. Develop and apply a formula for determining the: perimeter of polygons area of rectangles volume of right rectangular prisms. [C, CN, PS, R, V] 	 Design and construct different rectangles given either perimeter or area, or both (whole numbers) and draw conclusions. [C, CN, PS, R, V] Demonstrate an understanding of measuring length (mm) by: selecting and justifying referents for the unit mm modelling and describing the relationship between mm and cm units, and between mm and m units. [C, CN, ME, PS, R, V]

Grade 8	Nelson Math Focus 8	Math Makes	MathLinks 8	Leaps and Bounds 7/8	Grade 7	Grade 6	Grade 5
outcomes	Matri i Ocus o	Sense o		ropics	outcomes	outcomes	When outcomes
4. Develop and apply formulas for determining the volume of right prisms and right cylinders. [C, CN, PS, R, V]	Chapter 5: Lessons 5.5, 5.6, 5.7, Math Game, Chapter Task	Unit 4, Lessons 4.5, Game, 4.6, 4.8, Unit Problem	Chapter 7: 7.1–7.4 Wrap It Up! Math Games Challenge in Real Life: Create a Storage Container Chapters 5–8 Review	Area and Perimeter Pathway 1: Area of Circles Pathway 4: Area of Parallelograms and Triangles Pathway 5: Area and Perimeter of Rectangles Volume and Surface Area Pathway 1: Volume of Prisms: Using a Formula (Grade 8 WNCP) Pathway 3: Volume of Rectangular Prisms	 Demonstrate an understanding of circles by describing the relationships among radius, diameter and circumference of circles relating circumference to pi solving problems involving the radii, diameters and circumferences of circles. [C, CN, R, V] Develop and apply a formula for determining the area of triangles parallelograms circles. [CN, PS, R, V] 	3. Develop and apply a formula for determining the: • perimeter of polygons • area of rectangles • volume of right rectangular prisms. [C, CN, PS, R, V]	 3. Demonstrate an understanding of volume by: selecting and justifying referents for cm³ or m³ units estimating volume by using referents for cm³ or m³ measuring and recording volume (cm³ or m³) constructing rectangular prisms for a given volume. [C, CN, ME, PS, R, V] 4. Demonstrate an understanding of capacity by: describing the relationship between mL and L selecting and justifying referents for mL or L units estimating capacity by using referents for mL or L measuring and recording capacity (mL or L). [C, CN, ME, PS, R, V]
Shape and Space	(3-D Objects and	2-D Shapes)					
5. Draw and interpret top, front and side views of 3- D objects	Chapter 11: Lessons 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, Math	Unit 8, Lessons 8.1, Technology Lesson, 8.2,	Chapter 5: 5.1 Wrap It Up! Challenge in Real Life: Design a	3-D Shapes Pathway 1: Using Isometric Drawings Pathway 2: Using			
composed of right rectangular prisms. [C, CN, R, T, V]	Game, Curious Maths, Chapter Self-Test, Chapter Review, Chapter Task	8.3, Technology Lesson	Bedroom Challenge in Real Life: Create a Storage Container Chapters 5–8 Review	Different Views (Grade 8 WNCP)			

Leaps and Bounds 7/8 Correlation to WNCP Mathematics Curriculum and Grade 8 classroom resources

Grade 8 WNCP	Nelson Math	Math Makes	MathLinks 8	Leaps and Bounds 7/8 Topics	Grade 7 WNCP outcomes	Grade 6 WNCP outcomes	Grade 5 WNCP outcomes
outcomes	Focus 8	Sense 8		2-D Shapes <i>Pathway 3</i> : Sorting and Classifying Polygons		 4. Construct and compare triangles, including: scalene isosceles equilateral right obtuse acute in different orientations. [C, PS, R, V] 5. Describe and 	 6. Identify and sort quadrilaterals, including: rectangles squares trapezoids parallelograms rhombuses according to their attributes. [C, R, V]
						angles of regular and irregular polygons. [C, PS, R, V]	
				Geometric Drawings Pathway 1: Bisecting Angles and Line Segments Pathway 2: Drawing Lines and Polygons Pathway 3: Drawing Circles Pathway 4: Drawing Triangles	 Demonstrate an understanding of circles by describing the relationships among radius, diameter and circumference of circles relating circumference to pi determining the sum of the central angles constructing circles with a given radius or diameter solving problems involving the radii, diameters and circumferences of circles. [C, CN, R, V] Perform geometric constructions, including; perpendicular line segments perpendicular bisectors angle bisectors. [CN, R, V] 	 4. Construct and compare triangles, including: scalene isosceles equilateral right obtuse acute in different orientations. [C, PS, R, V] 	 5. Describe and provide examples of edges and faces of 3- D objects and sides of 2-D shapes that are: parallel intersecting perpendicular vertical horizontal. [C, CN, R, T, V]
				Location <i>Pathway 1</i> : Plotting Points in 4 Quadrants <i>Pathway 2</i> : Plotting Points on a Grid	 4. Identify and plot points in the four quadrants of a Cartesian plane using integral ordered pairs. [C, CN, V] 	8. Identify and plot points in the first quadrant of a Cartesian plane using whole number ordered pairs. [C, CN, V]	

Grade 8 WNCP	Nelson Math	Math Makes	MathLinks 8	Leaps and Bounds 7/8 Topics	Grade 7 WNCP outcomes	Grade 6 WNCP outcomes	Grade 5 WNCP outcomes
outcomes	Focus 8	Sense 8					
 6. Demonstrate an understand- ding of tessellation by: • explaining the properties of shapes that make tessellating possible • creating tessellations • identifying tessellations in the environ- ment. [C, CN, PS, T, V] 	Chapter 7: Lessons 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, Math Game, Curious Math, Chapter Self-Test, Chapter Review, Chapter Task	Unit 8, Lessons 8.4, 8.5, Game, 8.6, Technology Lesson, Unit Problem	Chapter 12: 12.1–12.4 Wrap It Up! Math Games Challenge in Real Life: Border Design Chapters 9–12 Review Task: Put Out a Forest Fire	Transformations <i>Pathway 3</i> : Combining Transformations <i>Pathway 4</i> : Performing Single Transformations	5. Perform and describe transformations (translations, rotations or reflections) of a 2-D shape in all four quadrants of a Cartesian plane (limited to integral number vertices). [CN, PS, T, V]	 6. 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. [C, CN, PS, T, V] 7. Perform a combination of successive transformations of 2-D shapes to create a design, and identify and describe the transformations. [C, CN, T, V] 9. Perform and describe single transformations of a 2-D shape in the first quadrant of a Cartesian plane (limited to whole number vertices). [C, CN, PS, T, V] 	 7. Perform a single transformation (translation, rotation or reflection) of a 2-D shape, (with and without technology) and draw and describe the image. [C, CN, T, V] 8. Identify a single transformation including a translation, a rotation and a reflection of 2-D shapes. [C, T, V]
Statistics and I	Probability (I	Data Analysis	s)				
1. Critique ways in which data is presented. [C, R, T, V]	Chapter 8: Lessons 8.1, 8.2, 8.3, 8.4, 8.5, Curious Math, Math Game, Chapter Self-Test, Chapter Review, Chapter Task	Unit 7, Lessons 7.1, Technology Lessons, 7.2, Unit Problem	Chapter 1: 1.1–1.3 Wrap It Up! Math Games Challenge in Real Life: Keep Your Community Green Chapters 1–4 Review	Displaying Data Pathway 1: Using Circle Graphs and Line Graphs Pathway 2: Bias and Sampling (Grade 8 WNCP) Pathway 3: Interpreting Graphs Summarizing Data Pathway 1: Effects of Changing Data Pathway 2: Using mean, Median, and Mode Pathway 3: Calculating the Mean	 Demonstrate an understanding of central tendency and range by: determining the measures of central tendency (mean, median, mode) and range determining the most appropriate measures of central tendency to report findings. [C, PS, R, T] Determine the effect on the mean, median and mode when an outlier is included in a data set. [C, CN, PS, R] Construct, label and interpret circle graphs to solve problems. [C, CN, PS, R, T, V] 	 Create, label and interpret line graphs to draw conclusions. [C, CN, PS, R, V] Select, justify and use appropriate methods of collecting data, including: questionnaires experiments databases electronic media. [C, PS, T] Graph collected data and analyze the graph to solve problems. [C, CN, PS] 	 Differentiate between first-hand and second-hand data. [C, R, T, V] Construct and interpret double bar graphs to draw conclusions. [C, PS, R, T, V]

Grade 8 WNCP outcomes	Nelson Math Focus 8	Math Makes Sense 8	MathLinks 8	<i>Leaps and Bounds 7/8</i> Topics	Grade 7 WNCP outcomes	Grade 6 WNCP outcomes	Grade 5 WNCP outcomes
Statistics and Probability (Chance and Uncertainty)							
2. Solve problems involving the probability of independent events. [C, CN, PS, T]	Chapter 10: Lessons 10.1, 10.2, 10.3, 10.4, Curious Math, Math Game, Chapter Self-Test, Chapter Review, Chapter Task	Unit 7, Lessons 7.3, Game, 7.4, Technology Lesson, Unit Problem	Chapter 11: 11.1–11.3 Wrap It Up! Math Games Challenge in Real Life: Treasure Hunt Chapters 9–12 Review Task: Put Out a Forest Fire	Probability Pathway 1: Probability: Independent Events Pathway 2: Theoretical Probability Pathway 3: Experimental Probability	 4. Express probabilities as ratios, fractions and percents. [C, CN, R, T, V] 5. Identify the sample space (where the combined sample space has 36 or fewer elements) for a probability experiment involving two independent events. [C, ME, PS] 6. Conduct a probability experiment to compare the theoretical probability (determined using a tree diagram, table or another graphic organizer) and experimental probability of two independent events. 	 4. Demonstrate an understanding of probability by: identifying all possible outcomes of a probability experiment differentiating between experimental and theoretical probability determining the theoretical probability of outcomes in a probability experiment determining the experimental probability of outcomes in a probability of outcomes in a probability of outcomes in a probability experiment comparing experimental results with the theoretical probability for an experiment. [C, ME, PS, T] 	 3. Describe the likelihood of a single outcome occurring using words, such as: impossible possible certain. [C, CN, PS, R] 4. Compare the likelihood of two possible outcomes occurring using words, such as: less likely equally likely more likely. [C, CN, PS, R]