

Curriculum Correlation

Number Cluster 7: Operational Fluency

Note: Codes to curriculum are for cross-referencing purposes only.

Ontario

Curriculum Expectations	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
Overall Expectation Operational Sense: solve problems involving the addition and subtraction of one- and two-digit whole numbers, using a variety of strategies, and investigate multiplication and division Cross Strand: Patterning and Algebra Expressions and Equality: demonstrate an understanding of the concept of equality between pairs of expressions, using concrete materials, symbols, and addition and subtraction to 18			
N2.3 compose and decompose two-digit numbers in a variety of ways, using concrete materials N2.12 solve problems involving the addition and subtraction of whole numbers to 18, using a variety of mental strategies N2.13 describe relationships between quantities by using whole-number addition and subtraction N2.16 solve problems involving the addition and subtraction of two-digit numbers, with and without regrouping, using concrete materials (e.g., base ten materials, counters), student-generated algorithms, and	Below Grade: Intervention 13: Making 10 14: Finding Doubles On Grade: Teacher Cards 32: Complements of 10 (N2.12, N2.13, P2.11) 33: Using Doubles (N2.12) 34: Fluency with 20 (N2.12, N2.13) 35: Multi-Digit Fluency (N2.12, N2.13, N2.16) 36: Operational Fluency Consolidation (N2.12, N2.13) On Grade: Math Every Day Card 7A: Doubles and Near-Doubles (N2.12) I Have... I Need... (N2.3, N2.12, N2.16) Card 7B: Hungry Bird (N2.12, N2.13, N2.16) Make 10 Sequences (N2.12, N2.13)	Below Grade: <ul style="list-style-type: none"> That's 10! (Activity 32) Buy 1—Get 1 (Activities 33, 34, 36) Canada's Oldest Sport (Activities 34, 36) On Grade: <ul style="list-style-type: none"> What Would You Rather? (Activity 33) Array's Bakery (Activities 34, 36) Marbles, Alleys, Mibs, and Guli! (Activity 35) A Class-full of Projects (Activities 35, 36) The Money Jar (Activity 35) The Great Dogsled Race (Activity 35) Above Grade: <ul style="list-style-type: none"> Planting Seeds (Activity 33) Math Makes Me Laugh (Activities 35, 36) 	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Conceptual Meaning of Addition and Subtraction <ul style="list-style-type: none"> Uses symbols and equations to represent addition and subtraction situations. (Activities 33, 34, 35) Developing Fluency of Addition and Subtraction Computation <ul style="list-style-type: none"> Fluently recalls complements to 10 (e.g., $6 + 4$; $7 + 3$). (Activity 32) Extends known sums and differences to solve other equations (e.g., using $5 + 5$ to add $5 + 6$). (Activities 33, 34, 36; MED 7A: 1; MED 7B: 2) Fluently adds and subtracts with quantities to 20. (Activities 34, 36; MED 7A: 2; MED 7B: 1, 2) Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. (Activity 35; MED 7A: 2) Estimates sums and differences of multi-digit numbers. (Activity 35) Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Understanding Equality and Inequality, Building on Generalized Properties of Numbers and Operations

Curriculum Correlation

Number Cluster 7: Operational Fluency

Ontario (continued)

<p>standard algorithms</p> <p>P2.11 identify, through investigation, and use the commutative property of addition to facilitate computation with whole numbers</p>		<ul style="list-style-type: none"> The Street Party (Activities 35, 36) 	<ul style="list-style-type: none"> Decomposes and combines numbers in equations to make them easier to solve (e.g., $8 + 5 = 3 + 5 + 5$). (Activities 34, 35, 36) Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition). (Activity 32; MED 7A: 1)
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Curriculum Correlation

Number Cluster 7: Operational Fluency

Note: Codes to curriculum are for cross-referencing purposes only.

British Columbia/Yukon Territories

Learning Standards	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
Big Idea Development of computational fluency in addition and subtraction with numbers to 100 requires an understanding of place value. Cross Strand: Patterns and Relations			
Addition and subtraction facts to 20 (introduction of computational strategies) <ul style="list-style-type: none"> 2.5 adding and subtracting numbers to 20 2.6 fluency with math strategies for addition and subtraction 	Below Grade: Intervention 13: Making 10 14: Finding Doubles On Grade: Teacher Cards 32: Complements of 10 (2.5, 2.6, 2.20) 33: Using Doubles (2.5, 2.6, 2.21) 34: Fluency with 20 (2.5, 2.6, 2.21) 35: Multi-Digit Fluency (2.8, 2.9, 2.10, 2.11, 2.12) 36: Operational Fluency Consolidation (2.5, 2.6, 2.8, 2.9, 2.10, 2.11, 2.12)	Below Grade: <ul style="list-style-type: none"> That's 10! (Activity 32) Buy 1—Get 1 (Activities 33, 34, 36) Canada's Oldest Sport (Activities 34, 36) On Grade: <ul style="list-style-type: none"> What Would You Rather? (Activity 33) Array's Bakery (Activities 34, 36) Marbles, Alleys, Mibs, and Guli! (Activity 35) A Class-full of Projects (Activities 35, 36) The Money Jar (Activity 35) The Great Dogsled Race (Activity 35) 	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Conceptual Meaning of Addition and Subtraction <ul style="list-style-type: none"> Uses symbols and equations to represent addition and subtraction situations. (Activities 33, 34, 35) Developing Fluency of Addition and Subtraction Computation <ul style="list-style-type: none"> Fluently recalls complements to 10 (e.g., $6 + 4$; $7 + 3$). (Activity 32) Extends known sums and differences to solve other equations (e.g., using $5 + 5$ to add $5 + 6$). (Activities 33, 34, 36; MED 7A: 1; MED 7B: 2) Fluently adds and subtracts with quantities to 20. (Activities 34, 36; MED 7A: 2; MED 7B: 1, 2) Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. (Activity 35; MED 7A: 2) Estimates sums and differences of multi-digit numbers. (Activity 35)
2.9 using strategies such as looking for multiples of 10, friendly numbers, decomposing into 10s and 1s and recomposing, and compensating	On Grade: Math Every Day Card 7A: Doubles and Near-Doubles (2.5, 2.6, 2.13) I Have... I Need... (2.5, 2.6, 2.7, 2.9, 2.10, 2.11, 2.20)		Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Understanding Equality and Inequality, Building on Generalized Properties of Numbers and Operations
2.10 adding up to find the difference	Card 7B: Hungry Bird (2.5, 2.6, 2.9, 2.10, 2.11, 2.12) Make 10 Sequences (2.5, 2.6, 2.9, 2.13)	Above Grade: <ul style="list-style-type: none"> Planting Seeds (Activity 33) Math Makes Me Laugh (Activities 35, 36) The Street Party (Activities 35, 36) 	Decomposes and combines numbers in equations to make them easier to solve (e.g., $8 + 5 = 3 + 5 + 5$). (Activities 34, 35, 36)

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British Columbia/Yukon Territories (continued)

<ul style="list-style-type: none">• 2.11 using an open number line, hundred chart, ten-frames• 2.12 using addition and subtraction in real-life contexts and problem-based situations• 2.13 whole-class number talks <p>Change in quantity using pictorial and symbolic representation</p> <ul style="list-style-type: none">• 2.20 numerically describing a change in quantity• 2.21 symbolic representation of equality and inequality			<p>- Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition). (Activity 32; MED 7A: 1)</p>
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Curriculum Correlation

Number Cluster 7: Operational Fluency

Note: Codes to curriculum are for cross-referencing purposes only.

New Brunswick/Prince Edward Island/Newfoundland and Labrador

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
General Outcome Develop number sense Cross Strand: Patterns and Relations (Variables and Equations) General Outcome Represent algebraic expressions in multiple ways.			
2N8 Demonstrate and explain the effect of adding zero to or subtracting zero from any number.	Below Grade: Intervention 13: Making 10 14: Finding Doubles On Grade: Teacher Cards 32: Complements of 10 (2N8, 2N9.3, 2N10.2) 33: Using Doubles (2N10.1, 2N10.5, 2PR4) 34: Fluency with 20 (2N10.1, 2N10.2, 2N10.3, 2N10.4, 2N10.5, 2N10.6, 2PR4) 35: Multi-Digit Fluency 36: Operational Fluency Consolidation (2N10.1, 2N10.2, 2N10.3, 2N10.4, 2N10.5, 2N10.6)	Below Grade: <ul style="list-style-type: none"> That's 10! (Activity 32) Buy 1—Get 1 (Activities 33, 34, 36) Canada's Oldest Sport (Activities 34, 36) On Grade: <ul style="list-style-type: none"> What Would You Rather? (Activity 33) Array's Bakery (Activities 34, 36) Marbles, Alleys, Mibs, and Guli! (Activity 35) A Class-full of Projects (Activities 35, 36) The Money Jar (Activity 35) The Great Dogsled Race (Activity 35) Above Grade: <ul style="list-style-type: none"> Planting Seeds (Activity 33) Math Makes Me Laugh (Activities 35, 36) The Street Party (Activities 35, 36) 	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Conceptual Meaning of Addition and Subtraction <ul style="list-style-type: none"> Uses symbols and equations to represent addition and subtraction situations. (Activities 33, 34, 35) Developing Fluency of Addition and Subtraction Computation <ul style="list-style-type: none"> Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3). (Activity 32) Extends known sums and differences to solve other equations (e.g., using 5 + 5 to add 5 + 6). (Activities 33, 34, 36; MED 7A: 1; MED 7B: 2) Fluently adds and subtracts with quantities to 20. (Activities 34, 36; MED 7A: 2; MED 7B: 1, 2) Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. (Activity 35; MED 7A: 2) Estimates sums and differences of multi-digit numbers. (Activity 35) Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Understanding Equality and Inequality, Building on Generalized Properties of Numbers and Operations
2N9 Demonstrate an understanding of addition (limited to 1 and 2-digit numerals) with answers to 100 and the corresponding subtraction by: <ul style="list-style-type: none"> • 2N9.1 using personal strategies for adding and subtracting with and without the support of manipulatives • 2N9.2 creating and solving problems that involve addition and subtraction • 2N9.3 explaining that the order in 	On Grade: Math Every Day Card 7A: Doubles and Near-Doubles (2N10.1, 2N10.5) I Have... I Need... (2N9.1, 2N10.6) Card 7B: Hungry Bird (2N9.1, 2N9.2, 2N10.6)		

Curriculum Correlation

Number Cluster 7: Operational Fluency

New Brunswick/Prince Edward Island/Newfoundland and Labrador (continued)

<p>which numbers are added does not affect the sum</p> <ul style="list-style-type: none"> • 2N9.4 explaining that the order in which numbers are subtracted may affect the difference <p>2N10 Apply mental mathematics strategies, such as:</p> <ul style="list-style-type: none"> • 2N10.1 using doubles • 2N10.2 making 10 • 2N10.3 one more, one less • 2N10.4 two more, two less • 2N10.5 building on a known double • 2N10.6 addition for subtraction to determine basic addition facts to 18 and related subtraction facts. <p>2PR4 Record equalities and inequalities symbolically using the equal symbol or the not equal symbol.</p>	<p>Make 10 Sequences (2N10.2)</p>	<ul style="list-style-type: none"> - Decomposes and combines numbers in equations to make them easier to solve (e.g., $8 + 5 = 3 + 5 + 5$). (Activities 34, 35, 36) - Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition). (Activity 32; MED 7A: 1)
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Curriculum Correlation

Number Cluster 7: Operational Fluency

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Manitoba

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
General Outcome Develop number sense Cross Strand: Patterns and Relations (Variables and Equations) General Outcome Represent algebraic expressions in multiple ways.			
2.N.8 Demonstrate and explain the effect of adding zero to or subtracting zero from any number. 2.N.9 Demonstrate an understanding of addition (limited to 1- and 2-digit numerals) with answers to 100 and the corresponding subtraction by: • 2.N.9.1 using personal strategies for adding and subtracting with and without the support of manipulatives • 2.N.9.2 creating and solving problems that involve addition and subtraction • 2.N.9.3 explaining that the order in	Below Grade: Intervention 13: Making 10 14: Finding Doubles On Grade: Teacher Cards 32: Complements of 10 (2.N.8 , 2.N.9.3 , 2.N.10.2) 33: Using Doubles (2.N.10.1 , 2.N.10.5 , 2.PR.4) 34: Fluency with 20 (2.N.10.1 , 2.N.10.2 , 2.N.10.3 , 2.N.10.4 , 2.N.10.5 , 2.N.10.6 , 2.PR.4) 35: Multi-Digit Fluency 36: Operational Fluency Consolidation (2.N.10.1 , 2.N.10.2 , 2.N.10.3 , 2.N.10.4 , 2.N.10.5 , 2.N.10.6) On Grade: Math Every Day Card 7A: Doubles and Near-Doubles (2.N.10.1 , 2.N.10.5) I Have... I Need... (2.N.9.1 , 2.N.10.6) Card 7B: Hungry Bird (2.N.9.1 , 2.N.9.2 , 2.N.10.6)	Below Grade: <ul style="list-style-type: none"> That's 10! (Activity 32) Buy 1—Get 1 (Activities 33, 34, 36) Canada's Oldest Sport (Activities 34, 36) On Grade: <ul style="list-style-type: none"> What Would You Rather? (Activity 33) Array's Bakery (Activities 34, 36) Marbles, Alleys, Mibs, and Guli! (Activity 35) A Class-full of Projects (Activities 35, 36) The Money Jar (Activity 35) The Great Dogsled Race (Activity 35) Above Grade: <ul style="list-style-type: none"> Planting Seeds (Activity 33) Math Makes Me Laugh (Activities 35, 36) The Street Party (Activities 35, 36) 	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Conceptual Meaning of Addition and Subtraction <ul style="list-style-type: none"> Uses symbols and equations to represent addition and subtraction situations. (Activities 33, 34, 35) Developing Fluency of Addition and Subtraction Computation <ul style="list-style-type: none"> Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3). (Activity 32) Extends known sums and differences to solve other equations (e.g., using 5 + 5 to add 5 + 6). (Activities 33, 34, 36; MED 7A: 1; MED 7B: 2) Fluently adds and subtracts with quantities to 20. (Activities 34, 36; MED 7A: 2; MED 7B: 1, 2) Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. (Activity 35; MED 7A: 2) Estimates sums and differences of multi-digit numbers. (Activity 35) Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Understanding Equality and Inequality, Building on Generalized Properties of Numbers and Operations

Mathology 2

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Curriculum Correlation

Number Cluster 7: Operational Fluency

Manitoba (continued)

<p>which numbers are added does not affect the sum</p> <ul style="list-style-type: none"> • 2.N.9.4 explaining that the order in which numbers are subtracted may affect the difference <p>2.N.10 Apply mental mathematics strategies, including:</p> <ul style="list-style-type: none"> • 2.N.10.1 using doubles • 2.N.10.2 making 10 • 2.N.10.3 one more, one less • 2.N.10.4 two more, two less • 2.N.10.5 building on a known double • 2.N.10.6 using addition for subtraction to develop recall of basic addition facts to 18 and related subtraction facts. <p>2.PR.4 Record equalities and inequalities symbolically using the equal symbol or the not-equal symbol.</p>	<p>Make 10 Sequences (2.N.10.2)</p>	<p>- Decomposes and combines numbers in equations to make them easier to solve (e.g., $8 + 5 = 3 + 5 + 5$). (Activities 34, 35, 36)</p> <p>- Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition). (Activity 32; MED 7A: 1)</p>
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Curriculum Correlation

Number Cluster 7: Operational Fluency

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Nova Scotia

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
General Outcome Students will be expected to demonstrate number sense. Cross Strand: Patterns and Relations (Variables and Equations) General Outcome Students will be expected to represent algebraic expressions in multiple ways.			
2N08 Students will be expected to demonstrate and explain the effect of adding zero to or subtracting zero from any number.	Below Grade: Intervention 13: Making 10 14: Finding Doubles On Grade: Teacher Cards 32: Complements of 10 (2N08, 2N09.3, 2N10) 33: Using Doubles (2N10, 2PR04) 34: Fluency with 20 (2N10, 2PR04) 35: Multi-Digit Fluency 36: Operational Fluency Consolidation (2N10) On Grade: Math Every Day Card 7A: Doubles and Near-Doubles (2N10) I Have... I Need... (2N09.1, 2N10) Card 7B: Hungry Bird (2N09.1, 2N09.2, 2N10) Make 10 Sequences (2N10)	Below Grade: <ul style="list-style-type: none"> That's 10! (Activity 32) Buy 1—Get 1 (Activities 33, 34, 36) Canada's Oldest Sport (Activities 34, 36) On Grade: <ul style="list-style-type: none"> What Would You Rather? (Activity 33) Array's Bakery (Activities 34, 36) Marbles, Alleys, Mibs, and Guli! (Activity 35) A Class-full of Projects (Activities 35, 36) The Money Jar (Activity 35) The Great Dogsled Race (Activity 35) Above Grade: <ul style="list-style-type: none"> Planting Seeds (Activity 33) Math Makes Me Laugh (Activities 35, 36) The Street Party (Activities 35, 36) 	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Conceptual Meaning of Addition and Subtraction <ul style="list-style-type: none"> Uses symbols and equations to represent addition and subtraction situations. (Activities 33, 34, 35) Developing Fluency of Addition and Subtraction Computation <ul style="list-style-type: none"> Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3). (Activity 32) Extends known sums and differences to solve other equations (e.g., using 5 + 5 to add 5 + 6). (Activities 33, 34, 36; MED 7A: 1; MED 7B: 2) Fluently adds and subtracts with quantities to 20. (Activities 34, 36; MED 7A: 2; MED 7B: 1, 2) Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. (Activity 35; MED 7A: 2) Estimates sums and differences of multi-digit numbers. (Activity 35) Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Understanding Equality and Inequality, Building on Generalized Properties of Numbers and Operations

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Curriculum Correlation

Number Cluster 7: Operational Fluency

Manitoba (continued)

<p>involve addition and subtraction</p> <ul style="list-style-type: none"> • 2N09.3 explaining that the order in which numbers are added does not affect the sum • 2N09.4 explaining and demonstrating that the order in which numbers are subtracted matters when finding a difference 		<ul style="list-style-type: none"> - Decomposes and combines numbers in equations to make them easier to solve (e.g., $8 + 5 = 3 + 5 + 5$). (Activities 34, 35, 36) - Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition). (Activity 32; MED 7A: 1)
<p>2N10 Students will be expected to apply mental mathematics strategies to quickly recall basic addition facts to 18 and determine related subtraction facts.</p>		
<p>2PR04 Students will be expected to record equalities and inequalities symbolically, using the equal symbol or not equal symbol.</p>		

Curriculum Correlation

Number Cluster 7: Operational Fluency

Note: Codes to curriculum are for cross-referencing purposes only.

Alberta/Northwest Territories/Nunavut

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
General Outcome Develop number sense Cross Strand: Patterns and Relations (Variables and Equations) General Outcome Represent algebraic expressions in multiple ways.			
2N8 Demonstrate and explain the effect of adding zero to or subtracting zero from any number. 2N9 Demonstrate an understanding of addition (limited to 1- and 2-digit numerals) with answers to 100 and the corresponding subtraction by: • 2N9.1 using personal strategies for adding and subtracting with and without the support of manipulatives • 2N9.2 creating and solving problems that involve addition and subtraction • 2N9.3 using the	Below Grade: Intervention 13: Making 10 14: Finding Doubles On Grade: Teacher Cards 32: Complements of 10 (2N8 , 2N9.3 , 2N10) 33: Using Doubles (2N10 , 2PR5) 34: Fluency with 20 (2N10 , 2PR5) 35: Multi-Digit Fluency 36: Operational Fluency Consolidation (2N10) On Grade: Math Every Day Card 7A: Doubles and Near-Doubles (2N10) I Have... I Need... (2N9.1 , 2N10) Card 7B: Hungry Bird (2N9.1 , 2N9.2 , 2N10) Make 10 Sequences (2N10)	Below Grade: <ul style="list-style-type: none"> That's 10! (Activity 32) Buy 1—Get 1 (Activities 33, 34, 36) Canada's Oldest Sport (Activities 34, 36) On Grade: <ul style="list-style-type: none"> What Would You Rather? (Activity 33) Array's Bakery (Activities 34, 36) Marbles, Alleys, Mibs, and Guli! (Activity 35) A Class-full of Projects (Activities 35, 36) The Money Jar (Activity 35) The Great Dogsled Race (Activity 35) Above Grade: <ul style="list-style-type: none"> Planting Seeds (Activity 33) Math Makes Me Laugh (Activities 35, 36) 	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Conceptual Meaning of Addition and Subtraction <ul style="list-style-type: none"> Uses symbols and equations to represent addition and subtraction situations. (Activities 33, 34, 35) Developing Fluency of Addition and Subtraction Computation <ul style="list-style-type: none"> Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3). (Activity 32) Extends known sums and differences to solve other equations (e.g., using 5 + 5 to add 5 + 6). (Activities 33, 34, 36; MED 7A: 1; MED 7B: 2) Fluently adds and subtracts with quantities to 20. (Activities 34, 36; MED 7A: 2; MED 7B: 1, 2) Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. (Activity 35; MED 7A: 2) Estimates sums and differences of multi-digit numbers. (Activity 35) Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Understanding Equality and Inequality, Building on Generalized Properties of Numbers and Operations

Curriculum Correlation

Number Cluster 7: Operational Fluency

Alberta/Northwest Territories/Nunavut (continued)

<p>commutative property of addition (the order in which numbers are added does not affect the sum)</p> <ul style="list-style-type: none"> • 2N9.4 using the associative property of addition (grouping a set of numbers in different ways does not affect the sum) • 2N9.5 explaining that the order in which numbers are subtracted may affect the difference 		<ul style="list-style-type: none"> • The Street Party (Activities 35, 36) 	<ul style="list-style-type: none"> - Decomposes and combines numbers in equations to make them easier to solve (e.g., $8 + 5 = 3 + 5 + 5$). (Activities 34, 35, 36) - Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition). (Activity 32; MED 7A: 1)
<p>2N10 Apply mental mathematics strategies for basic addition facts and related subtraction facts to 18.</p>			
<p>2PR5 Students will be expected to record equalities and inequalities symbolically, using the equal symbol or not equal symbol.</p>			

Curriculum Correlation

Number Cluster 7: Operational Fluency

Note: Codes to curriculum are for cross-referencing purposes only.

Saskatchewan

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
Goals Spatial Sense, Logical Thinking, Mathematics as a Human Endeavour Cross Strand: Patterns and Relations			
N2.2 Demonstrate understanding of addition (limited to 1 and 2-digit numerals) with answers to 100 and the corresponding subtraction by: <ul style="list-style-type: none"> • N2.2.1 representing strategies for adding and subtracting concretely, pictorially, and symbolically • N2.2.2 creating and solving problems involving addition and subtraction • N2.2.3 estimating • N2.2.4 using personal strategies for adding and subtracting with and without the support of manipulatives • N2.2.5 analyzing the effect of adding or subtracting zero 	Below Grade: Intervention 13: Making 10 14: Finding Doubles On Grade: Teacher Cards 32: Complements of 10 (N2.2.1 , N2.2.5 , N2.2.6) 33: Using Doubles (N2.2.1 , P2.3.3) 34: Fluency with 20 (N2.2.1 , P2.3.3) 35: Multi-Digit Fluency 36: Operational Fluency Consolidation (N2.2.1) On Grade: Math Every Day Card 7A: Doubles and Near-Doubles (N2.2.1) I Have... I Need... (N2.2.1 , N2.2.4) Card 7B: Hungry Bird (N2.2.1 , N2.2.2 , N2.2.4) Make 10 Sequences (N2.2.1)	Below Grade: <ul style="list-style-type: none"> • That's 10! (Activity 32) • Buy 1—Get 1 (Activities 33, 34, 36) • Canada's Oldest Sport (Activities 34, 36) On Grade: <ul style="list-style-type: none"> • What Would You Rather? (Activity 33) • Array's Bakery (Activities 34, 36) • Marbles, Alleys, Mibs, and Guli! (Activity 35) • A Class-full of Projects (Activities 35, 36) • The Money Jar (Activity 35) • The Great Dogsled Race (Activity 35) Above Grade: <ul style="list-style-type: none"> • Planting Seeds (Activity 33) • Math Makes Me Laugh (Activities 35, 36) • The Street Party (Activities 35, 36) 	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Conceptual Meaning of Addition and Subtraction <ul style="list-style-type: none"> - Uses symbols and equations to represent addition and subtraction situations. (Activities 33, 34, 35) Developing Fluency of Addition and Subtraction Computation <ul style="list-style-type: none"> - Fluently recalls complements to 10 (e.g., 6 + 4; 7 + 3). (Activity 32) - Extends known sums and differences to solve other equations (e.g., using 5 + 5 to add 5 + 6). (Activities 33, 34, 36; MED 7A: 1; MED 7B: 2) - Fluently adds and subtracts with quantities to 20. (Activities 34, 36; MED 7A: 2; MED 7B: 1, 2) - Develops efficient mental strategies and algorithms to solve equations with multi-digit numbers. (Activity 35; MED 7A: 2) - Estimates sums and differences of multi-digit numbers. (Activity 35) Big Idea: Patterns and relations can be represented with symbols, equations, and expressions. Understanding Equality and Inequality, Building on Generalized Properties of Numbers and Operations <ul style="list-style-type: none"> - Decomposes and combines numbers in equations to make them easier to solve (e.g., 8 + 5 = 3 + 5 + 5). (Activities 34, 35, 36)

Mathology 2

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Curriculum Correlation

Number Cluster 7: Operational Fluency

Saskatchewan (continued)

<ul style="list-style-type: none"> • N2.2.6 analyzing the effect of the ordering of the quantities (addends, minuends, and subtrahends) in addition and subtraction statements. <p>P2.3 Demonstrate understanding of equality and inequality concretely and pictorially (0 to 100) by:</p> <ul style="list-style-type: none"> • P2.3.1 relating equality and inequality to balance • P2.3.2 comparing sets • P2.3.3 recording equalities with an equal sign • P2.3.4 recording inequalities with a not equal sign • P2.3.5 solving problems involving equality and inequality. 			<ul style="list-style-type: none"> - Explores properties of addition and subtraction (e.g., adding or subtracting 0, commutativity of addition). (Activity 32; MED 7A: 1)
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