

Grade 5 JUMP Math Correlation to the New BC Curriculum

NOTES:

Italicized JUMP Math lessons contain prerequisite material required to meet the learning standard.

An asterisk (*) indicates that a JUMP Math lesson covers a curriculum requirement primarily in the lesson plan.

JUMP Math strands are represented by:

NS Number Sense

ME Measurement

G Geometry

PA Patterns and Algebra

PDM Probability and Data Management

Big Ideas

Numbers describe quantities that can be represented by equivalent fractions.

Computational **fluency** and flexibility with numbers extend to operations with larger (multi-digit) numbers.

Identified regularities in number **patterns** can be expressed in tables.

Closed shapes have **area and perimeter** that can be described, measured, and compared.

Data represented in graphs can be used to show many-to-one correspondence.

Content

JUMP Math Lessons

number concepts to 1 000 000

Part	Unit	Lessons
1	1	PA5-4
1	2	NS5-1 to 3, 10, 11
1	3	NS5-20

• counting:

Part	Unit	Lessons
1	1	PA5-4

° multiples

Part	Unit	Lessons
1	1	PA5-4

° flexible counting strategies

Part	Unit	Lessons
1	1	PA5-4

° whole number benchmarks

Part	Unit	Lessons
1	2	NS5-1, 2, 10

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Content	JUMP Math Lessons		
• Numbers to 1 000 000 can be arranged and recognized:	Part	Unit	Lessons
	1	2	NS5-3, 11
	1	3	NS5-20
° comparing and ordering numbers	Part	Unit	Lessons
	1	2	NS5-3
° estimating large quantities	Part	Unit	Lessons
	1	2	NS5-11
	1	3	NS5-20
• place value:	Part	Unit	Lessons
	1	2	NS5-1, 2
° 100 000s, 10 000s, 1000s, 100s, 10s, and 1s	Part	Unit	Lessons
	1	2	NS5-1, 2
° understanding the relationship between digit places and their value, to 1 000 000	Part	Unit	Lessons
	1	2	NS5-1, 2
• First Peoples use unique counting systems (e.g., Tsimshian use of three counting systems, for animals, people and things; Tlingit counting for the naming of numbers e.g., 10 = two hands, 20 = one person)	Part	Unit	Lessons
	1	2	NS5-1
decimals to thousandths	Part	Unit	Lessons
	2	10	NS5-46 to 48, 50, 51
equivalent fractions	Part	Unit	Lessons
	2	9	NS5-39, 40, 44
whole-number, fraction, and decimal benchmarks	Part	Unit	Lessons
	2	9	NS5-34 to 40, 44
	2	10	NS5-52 to 55
	2	11	NS5-57 to 59, 62
• Two equivalent fractions are two ways to represent the same amount (having the same whole).	Part	Unit	Lessons
	2	9	NS5-39, 40
• comparing and ordering of fractions and decimals	Part	Unit	Lessons
	2	9	NS5-34 to 38
	2	10	NS5-52, 53

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Content	JUMP Math Lessons		
• addition and subtraction of decimals to thousandths	Part	Unit	Lessons
	2	10	NS5-54, 55
	2	11	NS5-57
• estimating decimal sums and differences	Part	Unit	Lessons
	2	11	NS5-58, 59, 62
• estimating fractions with benchmarks (e.g., zero, half, whole)	Part	Unit	Lessons
	2	9	NS5-37, 44
	2	10	NS5-53
• equal partitioning	Part	Unit	Lessons
	2	9	NS5-34
addition and subtraction of whole numbers to 1 000 000	Part	Unit	Lessons
	1	2	NS5-4 to 7, 12
• using flexible computation strategies, involving taking apart (e.g., decomposing using friendly numbers and compensating) and combining numbers in a variety of ways, regrouping	Part	Unit	Lessons
	1	2	NS5-4 to 6
• estimating sums and differences to 10 000	Part	Unit	Lessons
	1	2	NS5-12
• using addition and subtraction in real-life contexts and problem-based situations	Part	Unit	Lessons
	1	2	NS5-7
• whole-class number talks	Part	Unit	Lessons
	1	2	NS5-12
multiplication and division to three digits, including division with remainders	Part	Unit	Lessons
	1	3	NS5-14 to 21
	1	4	NS5-24 to 33
• understanding the relationships between multiplication and division, multiplication and addition, and division and subtraction	Part	Unit	Lessons
	1	3	NS5-14
	1	4	NS5-24, 25
• using flexible computation strategies (e.g., decomposing, distributive principle, commutative principle, repeated addition, repeated subtraction)	Part	Unit	Lessons
	1	3	NS5-14 to 18, 21
	1	4	NS5-24, 28
• using multiplication and division in real-life contexts and problem-based situations	Part	Unit	Lessons
	1	3	NS5-18 to 21
	1	4	NS5-25, 32, 33

Content	JUMP Math Lessons		
• whole-class number talks	Part	Unit	Lessons
	1	3	NS5-16, 17
	1	4	NS5-33
addition and subtraction of decimals to thousandths	Part	Unit	Lessons
	2	10	NS5-54, 55
	2	11	NS5-56, 57, 59, 62
• estimating decimal sums and differences	Part	Unit	Lessons
	2	11	NS5-59, 62
• using visual models such as base 10 blocks, place-value mats, grid paper, and number lines	Part	Unit	Lessons
	2	10	NS5-54
	2	11	NS5-56
• using addition and subtraction in real-life contexts and problem-based situations	Part	Unit	Lessons
	2	10	NS5-54, 55
	2	11	NS5-57, 62
• whole-class number talks	Part	Unit	Lessons
	2	11	NS5-62
addition and subtraction facts to 20 (extending computational fluency)	Part	Unit	Lessons
	1	2	NS5-8 to 10
• Provide opportunities for authentic practice, building on previous grade-level addition and subtraction facts.	Part	Unit	Lessons
	1	2	NS5-8 to 10
• applying strategies and knowledge of addition and subtraction facts in real-life contexts and problem-based situations, as well as when making math-to-math connections (e.g., for $800 + 700$, you can annex the zeros and use the knowledge of $8 + 7$ to find the total)	Part	Unit	Lessons
	1	2	NS5-8 to 10
multiplication and division facts to 100 (emerging computational fluency)	Part	Unit	Lessons
	1	1	PA5-4, 6
	1	3	NS5-14, 16 to 19, 21, 22
	1	4	NS5-24, 25, 28
• Provide opportunities for concrete and pictorial representations of multiplication.	Part	Unit	Lessons
	1	3	NS5-14, 17 to 19, 21, 22

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Content	JUMP Math Lessons		
<ul style="list-style-type: none"> Use games to provide opportunities for authentic practice of multiplication computations. 	Part	Unit	Lessons
	1	3	NS5-14
<ul style="list-style-type: none"> looking for patterns in numbers, such as in a hundred chart, to further develop understanding of multiplication computation 	Part	Unit	Lessons
	1	1	PA5-6
<ul style="list-style-type: none"> Connect multiplication to skip-counting. 	Part	Unit	Lessons
	1	1	PA5-4
	1	3	NS5-14
<ul style="list-style-type: none"> Connecting multiplication to division and repeated addition. 	Part	Unit	Lessons
	1	1	PA5-4
	1	3	NS5-14
	1	4	NS5-24, 25
<ul style="list-style-type: none"> Memorization of facts is not intended for this level. 			
<ul style="list-style-type: none"> Students will become more fluent with these facts. 	Part	Unit	Lessons
	1	1	PA5-4
<ul style="list-style-type: none"> using mental math strategies, such as doubling and halving, annexing, and distributive property 	Part	Unit	Lessons
	1	3	NS5-14, 16, 17, 19
	1	4	NS5-28
<ul style="list-style-type: none"> Students should be able to recall many multiplication facts by the end of Grade 5 (e.g., 2s, 3s, 4s, 5s, 10s). 	Part	Unit	Lessons
	1	3	NS5-14, 16
<ul style="list-style-type: none"> developing computational fluency with facts to 100 	Part	Unit	Lessons
	1	3	NS5-14, 16, 17
rules for increasing and decreasing patterns with words, numbers, symbols, and variables	Part	Unit	Lessons
	1	1	PA5-1 to 3, 5, 7
	2	8	PA5-10
one-step equations with variables	Part	Unit	Lessons
	2	8	PS5-8, 10 PA5-9, 11 to 16
<ul style="list-style-type: none"> solving one-step equations with a variable 	Part	Unit	Lessons
	2	8	PS5-8 PA5-9, 12 to 16
<ul style="list-style-type: none"> expressing a given problem as an equation, using symbols (e.g., $4 + X = 15$) 	Part	Unit	Lessons
	2	8	PA5-10 PA5-11 to 16

Content	JUMP Math Lessons		
area measurement of squares and rectangles	Part	Unit	Lessons
	2	14	ME5-14 to 16
relationships between area and perimeter	Part	Unit	Lessons
	2	14	ME5-12 to 16
<ul style="list-style-type: none"> measuring area of squares and rectangles, using tiles, geoboards, grid paper 	Part	Unit	Lessons
	2	14	ME5-14 to 16
<ul style="list-style-type: none"> investigating perimeter and area and how they are related to but not dependent on each other 	Part	Unit	Lessons
	2	14	ME5-15, 16
<ul style="list-style-type: none"> use traditional dwellings 	Part	Unit	Lessons
	2	14	ME5-16
<ul style="list-style-type: none"> Invite a local Elder or knowledge keeper to talk about traditional measuring and estimating techniques for hunting, fishing, and building. 	Part	Unit	Lessons
	2	14	ME5-15
duration, using measurement of time	Part	Unit	Lessons
	1	5	ME5-5 ME5-6 to 8, 10
<ul style="list-style-type: none"> understanding elapsed time and duration 	Part	Unit	Lessons
	1	5	ME5-5 ME5-6 to 8, 10
<ul style="list-style-type: none"> applying concepts of time in real-life contexts and problem-based situations 	Part	Unit	Lessons
	1	5	ME5-7, 8, 10
<ul style="list-style-type: none"> daily and seasonal cycles, moon cycles, tides, journeys, events 	Part	Unit	Lessons
	1	5	ME5-10
classification of prisms and pyramids	Part	Unit	Lessons
	1	6	G5-1, 5, 6, 8 to 11
	2	13	G5-21 to 24
<ul style="list-style-type: none"> investigating 3D objects and 2D shapes, based on multiple attributes 	Part	Unit	Lessons
	1	6	G5-1, 5, 6, 8 to 11
	2	13	G5-21 to 24
<ul style="list-style-type: none"> describing and sorting quadrilaterals 	Part	Unit	Lessons
	1	6	G5-5 G5-6, 9 to 11

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Content	JUMP Math Lessons		
• describing and constructing rectangular and triangular prisms	Part	Unit	Lessons
	2	13	G5-22 to 24
• identifying prisms in the environment	Part	Unit	Lessons
	2	13	G5-22*, 23*
single transformations	Part	Unit	Lessons
	2	12	G5-15, 17 to 20
• single transformations (slide/translation, flip/reflection, turn/rotation)	Part	Unit	Lessons
	2	12	G5-15, 17 to 20
• using concrete materials with a focus on the motion of transformations	Part	Unit	Lessons
	2	12	G5-15*, 17*, 18*, 19*, 20*
• weaving, cedar baskets, designs	Part	Unit	Lessons
	2	12	G5-17, 18, 20*
one-to-one correspondence and many-to-one correspondence , using double bar graphs	Part	Unit	Lessons
	1	7	PDM5-1, 2
• many-to-one correspondence: one symbol represents a group or value (e.g., on a bar graph, one square may represent five cookies)	Part	Unit	Lessons
	1	7	PDM5-1, 2
probability experiments , single events or outcomes	Part	Unit	Lessons
	2	15	PDM5-9, 12 to 15
• predicting outcomes of independent events (e.g., when you spin using a spinner and it lands on a single colour)	Part	Unit	Lessons
	2	15	PDM5-12 to 15
• predicting single outcomes (e.g., when you spin using a spinner and it lands on a single colour)	Part	Unit	Lessons
	2	15	PDM5-9, 12 to 15
• using spinners, rolling dice, pulling objects out of a bag	Part	Unit	Lessons
	2	15	PDM5-12 to 15
• representing single outcome probabilities using fractions	Part	Unit	Lessons
	2	15	PDM5-12 to 15
financial literacy — monetary calculations, including making change with amounts to 1000 dollars and developing simple financial plans	Part	Unit	Lessons
	2	11	NS5-56, 57, 59, 62
• making monetary calculations, including making change and decimal notation to \$1000 in real-life contexts and problem-based situations	Part	Unit	Lessons
	2	11	NS5-56, 57, 59, 62

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Content	JUMP Math Lessons		
	Part	Unit	Lessons
• applying a variety of strategies, such as counting up, counting back, and decomposing, to calculate totals and make change	2	11	NS5-57*
• making simple financial plans to meet a financial goal	Part	Unit	Lessons
	2	11	NS5-57, 62
• developing a budget that takes into account income and expenses	Part	Unit	Lessons
	2	11	NS5-62*

Grade 5 JUMP Math Exemplar Lessons for Curricular Competencies

The Curricular Competencies in the new BC Mathematics curriculum are addressed throughout JUMP Math's Grade 5 resource. The following table lists a selection of JUMP Math lessons that provide effective illustrations of how each Curricular Competency is addressed.

Curricular Competencies			
Reasoning and analyzing	JUMP Math Lessons		
• Use reasoning to explore and make connections	Part	Unit	Lessons
	1	1	PA5-7
	2	10	NS5-53
• Estimate reasonably	Part	Unit	Lessons
	1	5	ME5-8
	2	11	NS5-59
• Develop mental math strategies and abilities to make sense of quantities	Part	Unit	Lessons
	1	4	NS5-28
	2	11	NS5-61
• Use technology to explore mathematics	Part	Unit	Lessons
	1	6	G5-10
	2	12	G5-15
• Model mathematics in contextualized experiences	Part	Unit	Lessons
	1	5	ME5-10
	2	9	NS5-44
Understanding and solving	JUMP Math Lessons		
• Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving	Part	Unit	Lessons
	1	2	NS5-7
	2	12	G5-15
• Visualize to explore mathematical concepts	Part	Unit	Lessons
	1	6	G5-8
	2	13	G5-24
• Develop and use multiple strategies to engage in problem solving	Part	Unit	Lessons
	1	4	NS5-33
	2	14	ME5-16

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Curricular Competencies			
<ul style="list-style-type: none"> Engage in problem-solving experiences that are connected to place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures 	Part	Unit	Lessons
	1	2	NS5-1
	2	12	G5-20
Communicating and representing		JUMP Math Lessons	
<ul style="list-style-type: none"> Communicate mathematical thinking in many ways 	Part	Unit	Lessons
	1	7	PDM5-2
	2	9	NS5-38
<ul style="list-style-type: none"> Use mathematical vocabulary and language to contribute to mathematical discussions 	Part	Unit	Lessons
	1	6	G5-6
	2	13	G5-23
<ul style="list-style-type: none"> Explain and justify mathematical ideas and decisions 	Part	Unit	Lessons
	1	6	G5-10
	2	8	PA5-10
<ul style="list-style-type: none"> Represent mathematical ideas in concrete, pictorial, and symbolic forms 	Part	Unit	Lessons
	1	7	PDM5-1
	2	12	G5-20
Connecting and reflecting		JUMP Math Lessons	
<ul style="list-style-type: none"> Reflect on mathematical thinking 	Part	Unit	Lessons
	1	3	NS5-15
	2	8	PA5-9
<ul style="list-style-type: none"> Connect mathematical concepts to each other and to other areas and personal interests 	Part	Unit	Lessons
	1	7	PDM5-2
	2	14	ME5-15
<ul style="list-style-type: none"> Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts 	Part	Unit	Lessons
	1	2	NS5-1
	2	15	PDM5-9

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