

Grade 1 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 Teacher's Guide.

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 to 20 represent quantities that can be decomposed into 10s and 1s.

Addition and subtraction with numbers to 10 can be modelled concretely, pictorially, and symbolically to develop computational **fluency**.

Repeating elements in **patterns** can be identified.

Objects and shapes have **attributes** that can be described, measured, and compared.

Concrete graphs help us to compare and interpret **data** and show one-to-one correspondence.

Content

number concepts to 20

JUMP Math Lessons

Part	Unit	Lessons
1	2	NS1-1 to 12
1	4	NS1-13 to 25, 27*
1	6	NS1-28 to 30
2	10	NS1-49 to 55
2	12	NS1-65, 70
2	13	NS1-75
2	14	NS1-88

Content	JUMP Math Lessons		
• counting:	Part	Unit	Lessons
	1	2	NS1-1 to 12
	1	4	NS1-13 to 25, 27*
	1	6	NS1-28 to 30
	2	10	NS1-49 to 55
	2	13	NS1-75
◦ counting on and counting back	2	14	NS1-88
	Part	Unit	Lessons
	1	2	NS1-1 to 5, 7, 8
	1	4	NS1-13, 14, 19 to 21, 24, 27*
	1	6	NS1-28 to 30
	Part	Unit	Lessons
◦ skip-counting by 2 and 5	2	10	NS1-49 to 55
	Part	Unit	Lessons
◦ sequencing numbers to 20	1	2	NS1-2*, 3*, 5, 12
	1	4	NS1-25, 27*
	Part	Unit	Lessons
◦ comparing and ordering numbers to 20	1	2	NS1-9 to 11
	1	4	NS1-15 to 18, 23
	2	14	NS1-88
	Part	Unit	Lessons
◦ Numbers to 20 can be arranged and recognized.	1	2	NS1-7*, 8*
	1	4	NS1-21*, 22, 24
	2	13	NS1-75
	Part	Unit	Lessons
◦ subitizing	1	2	NS1-1 to 3
	1	4	NS1-14, 17*, 19*, 20*, 24*
	2	10	NS1-50, 51*, 53*, 54*
	2	13	NS1-75
	Part	Unit	Lessons

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED.

Content	JUMP Math Lessons		
◦ base 10	Part	Unit	Lessons
	1	4	NS1-22, 24
◦ 10 and some more	Part	Unit	Lessons
	1	4	NS1-22, 24
<ul style="list-style-type: none"> books published by Native Northwest: <i>Learn to Count</i>, by various artists; <i>Counting Wild Bears</i>, by Gryn White; <i>We All Count</i>, by Jason Adair; <i>We All Count</i>, by Julie Flett (nativenorthwest.com) using counting collections made of local materials; counting in different languages; different First Peoples counting systems (e.g., Tsimshian) 	Part	Unit	Lessons
	1	2	NS1-6*
	1	4	NS1-13*, 22*
<ul style="list-style-type: none"> <i>Tlingit Math Book</i> (yukon-ed-show-me-your-math.wikispaces.com/file/detail/Tlingit+Math+Book.pdf) 	Part	Unit	Lessons
	1	2	NS1-6*
	1	4	NS1-13*, 22*
ways to make 10	Part	Unit	Lessons
	1	1	PDM1-3*
	2	10	NS1-51*
	2	12	NS1-72 to 74
	2	13	NS1-75, 79, 82
<ul style="list-style-type: none"> decomposing 10 into parts 	Part	Unit	Lessons
	2	13	NS1-79
<ul style="list-style-type: none"> Numbers to 10 can be arranged and recognized. 	Part	Unit	Lessons
	2	13	NS1-75
<ul style="list-style-type: none"> benchmarks of 10 and 20 	Part	Unit	Lessons
	2	12	NS1-72 to 74
<ul style="list-style-type: none"> Traditional First Peoples counting methods involved using fingers to count to 5 and for groups of 5. 	Part	Unit	Lessons
	2	10	NS1-51*
<ul style="list-style-type: none"> traditional songs/singing and stories 	Part	Unit	Lessons
	1	1	PDM1-3*

Content	JUMP Math Lessons		
addition and subtraction to 20 (understanding of operation and process)	Part	Unit	Lessons
	1	8	NS1-31 to 43
	1	9	NS1-41, 43, 44
	2	12	NS1-66 to 69, 71
	2	13	NS1-78, 80 to 84
	2	14	NS1-88, 94, 99, 100
• decomposing 20 into parts	Part	Unit	Lessons
	2	13	NS1-84
• mental math strategies:	Part	Unit	Lessons
	1	8	NS1-33 to 37, 42*, 43
	2	12	NS1-71
	2	13	NS1-78, 80, 81, 84 to 86
◦ counting on	2	14	NS1-99, 100
	Part	Unit	Lessons
	1	8	NS1-33 to 37
	2	12	NS1-71
◦ making 10	2	13	NS1-78, 80
	2	14	NS1-89 to 93, 95 to 98
◦ doubles	Part	Unit	Lessons
	2	13	NS1-81, 84
• Addition and subtraction are related.	Part	Unit	Lessons
	2	13	NS1-85, 86
• whole-class number talks	Part	Unit	Lessons
	1	8	NS1-42*, 43
• nature scavenger hunt in <i>Kaska Counting Book</i> (yukon-ed-show-me-your-math.wikispaces.com/file/detail/Kaska Counting Book.pdf)	Part	Unit	Lessons
	2	14	NS1-100*
	Part	Unit	Lessons
	1	8	NS1-41*

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED.

Content	JUMP Math Lessons		
repeating patterns with multiple elements and attributes	Part	Unit	Lessons
	1	1	PDM1-1, 3
	1	3	PA1-1 to 7
	1	6	G1-6 to 8
	2	13	NS1-84
	2	15	PA1-8
• identifying sorting rules	Part	Unit	Lessons
	1	1	PDM1-1, 3
	1	6	G1-6 to 8
• repeating patterns with multiple elements/attributes	Part	Unit	Lessons
	1	3	PA1-1 to 3, 6, 7
• translating patterns from one representation to another (e.g., an orange-blue pattern could be translated to a circle-square pattern)	Part	Unit	Lessons
	1	3	PA1-4, 5
• letter coding of pattern	Part	Unit	Lessons
	1	3	PA1-5
• predicting an element in repeating patterns using a variety of strategies	Part	Unit	Lessons
	1	3	PA1-1, 2, 6
• patterns using visuals (ten-frames, hundred charts)	Part	Unit	Lessons
	2	13	NS1-84
	2	15	PA1-8
• investigating numerical patterns (e.g., skip-counting by 2s or 5s on a hundred chart)	Part	Unit	Lessons
	2	15	PA1-8
• beading using 3–5 colours	Part	Unit	Lessons
	1	3	PA1-3*, 6*
change in quantity to 20, concretely and verbally	Part	Unit	Lessons
	2	14	NS1-92*, 97*
• verbally describing a change in quantity (e.g., I can build 7 and make it 10 by adding 3)	Part	Unit	Lessons
	2	14	NS1-92*, 97*

Content	JUMP Math Lessons		
meaning of equality and inequality	Part	Unit	Lessons
	1	5	ME1-13, 14
	2	13	NS1-78
	2	15	PA1-9
• demonstrating and explaining the meaning of equality and inequality	Part	Unit	Lessons
	1	5	ME1-13, 14
	2	13	NS1-78
	2	15	PA1-9
• recording equations symbolically, using = and \neq	Part	Unit	Lessons
	1	5	ME1-13, 14
	2	13	NS1-78
	2	15	PA1-9
direct measurement with non-standard units (non-uniform and uniform)	Part	Unit	Lessons
	1	5	ME1-1 to 11
	2	17	ME1-26* to 28
• Non-uniform units are not consistent in size (e.g., children's hands, pencils); uniform units are consistent in size (e.g., interlocking cubes, standard paper clips).	Part	Unit	Lessons
	1	5	ME1-10
• understanding the importance of using a baseline for direct comparison in linear measurement	Part	Unit	Lessons
	1	5	ME1-1 to 7
• using multiple copies of a unit	Part	Unit	Lessons
	1	5	ME1-8, 9
• iterating a single unit for measuring (e.g., to measure the length of a string with only one cube, a student iterates the cube over and over, keeping track of how many cubes long the string is)	Part	Unit	Lessons
	1	5	ME1-11
• tiling an area	Part	Unit	Lessons
	2	17	ME1-27, 28
• rope knots at intervals	Part	Unit	Lessons
	1	5	ME1-11*
• using body parts to measure	Part	Unit	Lessons
	1	5	ME1-11

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED.

Content	JUMP Math Lessons		
<ul style="list-style-type: none"> book: <i>An Anishnaabe Look at Measurement</i>, by Rhonda Hopkins and Robin King-Stonefish (strongnations.com/store/item_display.php?i=3494&f=) 	Part	Unit	Lessons
	2	17	ME1-26*
<ul style="list-style-type: none"> hand/foot tracing for mitten/moccasin making 	Part	Unit	Lessons
	2	17	ME1-27*
comparison of 2D shapes and 3D objects	Part	Unit	Lessons
	1	1	PDM1-2
	1	5	ME1-7
	1	6	G1-1*, 2*, 3*, 4*, 5*, 7 to 11
	2	16	G1-12, 13, 15 to 19
<ul style="list-style-type: none"> sorting 3D objects and 2D shapes using one attribute, and explaining the sorting rule 	Part	Unit	Lessons
	1	1	PDM1-2
	1	5	ME1-7
	1	6	G1-1*, 2*, 3*, 4*, 5*, 7, 8
	2	16	G1-15*, 16*, 17, 18
<ul style="list-style-type: none"> comparing 2D shapes and 3D objects in the environment 	Part	Unit	Lessons
	1	6	G1-3, 9
	2	16	G1-15, 16
<ul style="list-style-type: none"> describing relative positions, using positional language (e.g., up and down, in and out) 	Part	Unit	Lessons
	2	16	G1-12, 13
<ul style="list-style-type: none"> replicating composite 2D shapes and 3D objects (e.g., putting two triangles together to make a square) 	Part	Unit	Lessons
	1	6	G1-9 to 11
	2	16	G1-19
concrete graphs , using one-to-one correspondence	Part	Unit	Lessons
	2	18	PDM1-4
<ul style="list-style-type: none"> creating, describing, and comparing concrete graphs 	Part	Unit	Lessons
	2	18	PDM1-4

Content	JUMP Math Lessons		
likelihood of familiar life events , using comparative language	Part	Unit	Lessons
	2	18	PDM1-9, 10
	2	17	ME1-26
<ul style="list-style-type: none"> • using the language of probability (e.g., never, sometimes, always, more likely, less likely) 	Part	Unit	Lessons
	2	18	PDM1-9, 10
<ul style="list-style-type: none"> • cycles (Elder or knowledge keeper to speak about ceremonies and life events) 	Part	Unit	Lessons
	2	17	ME1-26
financial literacy — values of coins, and monetary exchanges	Part	Unit	Lessons
	1	5	ME1-16
	2	11	NS1-61 to 64
<ul style="list-style-type: none"> • identifying values of coins (nickels, dimes, quarters, loonies, and toonies) 	Part	Unit	Lessons
	2	11	NS1-61 to 64
<ul style="list-style-type: none"> • counting multiples of the same denomination (nickels, dimes, loonies, and toonies) 	Part	Unit	Lessons
	2	11	NS1-63, 64
<ul style="list-style-type: none"> • Money is a medium of exchange. 	Part	Unit	Lessons
	2	11	NS1-63, 64
<ul style="list-style-type: none"> • role-playing financial transactions (e.g., using coins and whole numbers), integrating the concept of wants and needs 	Part	Unit	Lessons
	1	5	ME1-16
	2	11	NS1-63, 64
<ul style="list-style-type: none"> • trade games, with understanding that objects have variable value or worth (shells, beads, furs, tools) 	Part	Unit	Lessons
	2	11	NS1-61*

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED.

Grade 1 JUMP Math Exemplar Lessons for Curricular Competencies

The Curricular Competencies in the new BC Mathematics curriculum are addressed throughout JUMP Math's Grade 1 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	6	G1-7
	2	14	NS1-100
• Estimate reasonably	Part	Unit	Lessons
	1	5	ME1-9
	2	12	NS1-74
• Develop mental math strategies and abilities to make sense of quantities	Part	Unit	Lessons
	1	4	NS1-24
	2	13	NS1-82
• Use technology to explore mathematics	Part	Unit	Lessons
	1	6	NS1-13
	2	10	NS1-52
• Model mathematics in contextualized experiences	Part	Unit	Lessons
	1	4	NS1-15
	2	11	NS1-64
Understanding and solving	JUMP Math Lessons		
• Develop, demonstrate, and apply mathematical understanding through play, inquiry, and problem solving	Part	Unit	Lessons
	1	2	NS1-12
	2	14	NS1-100
• Visualize to explore mathematical concepts	Part	Unit	Lessons
	1	9	NS1-42
	2	12	NS1-66
• Develop and use multiple strategies to engage in problem solving	Part	Unit	Lessons
	1	9	NS1-44
	2	13	NS1-84

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED.

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	5	ME1-11
	2	11	NS1-61
Communicating and representing		JUMP Math Lessons	
<ul style="list-style-type: none"> Communicate mathematical thinking in many ways 	Part	Unit	Lessons
	1	5	ME1-8
	2	16	G1-17
<ul style="list-style-type: none"> Use mathematical vocabulary and language to contribute to mathematical discussions 	Part	Unit	Lessons
	1	6	G1-2
	2	18	PDM1-9
<ul style="list-style-type: none"> Explain and justify mathematical ideas and decisions 	Part	Unit	Lessons
	1	2	NS1-10
	2	10	NS1-55
<ul style="list-style-type: none"> Represent mathematical ideas in concrete, pictorial, and symbolic forms 	Part	Unit	Lessons
	1	3	PA1-7
	2	15	PA1-9
Connecting and reflecting		JUMP Math Lessons	
<ul style="list-style-type: none"> Reflect on mathematical thinking 	Part	Unit	Lessons
	1	7	NS1-30
	2	13	NS1-88
<ul style="list-style-type: none"> Connect mathematical concepts to each other and to other areas and personal interests 	Part	Unit	Lessons
	1	6	G1-4
	2	18	PDM1-4
<ul style="list-style-type: none"> Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts 	Part	Unit	Lessons
	1	4	NS1-22
	2	17	ME1-26

COPYRIGHT © 2017 JUMP MATH: NOT TO BE COPIED.