

Grade 3 JUMP Math Correlation to the Alberta Curriculum

NOTES:

Underlined JUMP Math lessons are review from a previous grade.

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

Number				
General Outcome				
Develop number sense.				
Specific Outcomes		JUMP Math Lessons		
1.	Say the number sequence 0 to 1000 forward and backward by: • 5s, 10s or 100s, using any starting point • 3s, using starting points that are multiples of 3 • 4s, using starting points that are multiples of 4 • 25s, using starting points that are multiples of 25. [C, CN, ME]	Part	Unit	Lessons
		1	2	NS3-10
		1	6	NS3-27, 29 to 31
		2	11	PA3-14
		2	16	NS3-76 to 79, 82
2.	Represent and describe numbers to 1000, concretely, pictorially and symbolically. [C, CN, V]	Part	Unit	Lessons
		1	2	NS3-2 to 6
3.	Compare and order numbers to 1000. [C, CN, R, V]	Part	Unit	Lessons
		1	2	NS3-7 to 9
		2	11	PA3-15
4.	Estimate quantities less than 1000, using referents. [ME, PS, R, V]	Part	Unit	Lessons
		2	15	NS3-73

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Number				
5.	Illustrate, concretely and pictorially, the meaning of place value for numerals to 1000. [C, CN, R, V]	Part	Unit	Lessons
		1	2	NS3-1, 11
		2	16	NS3-80, 83
6.	Describe and apply mental mathematics strategies for adding two 2-digit numerals. [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		1	2	<u>NS3-12</u>
		1	3	NS3-19 to 21
7.	Describe and apply mental mathematics strategies for subtracting two 2-digit numerals. [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		1	3	NS3-23
8.	Apply estimation strategies to predict sums and differences of two 2-digit numerals in a problem-solving context. [C, ME, PS, R]	Part	Unit	Lessons
		2	15	NS3-71, 72
9.	Demonstrate an understanding of addition and subtraction of numbers with answers to 1000 (limited to 1-, 2- and 3-digit numerals), concretely, pictorially and symbolically, by: <ul style="list-style-type: none"> • using personal strategies for adding and subtracting with and without the support of manipulatives • creating and solving problems in context that involve addition and subtraction of numbers. [C, CN, ME, PS, R, V] <i>Note: Students investigate a variety of strategies, including standard/traditional algorithms, to become proficient in at least one appropriate and efficient strategy that they understand.</i>	Part	Unit	Lessons
		1	2	<u>NS3-12</u> NS3-13 to 17
		1	3	<u>NS3-24, 25</u> NS3-22, 23, 26
		1	4	ME3-5
		2	16	NS3-81
10.	Apply mental mathematics strategies and number properties in order to understand and recall basic addition facts and related subtraction facts to 18. [C, CN, ME, PS, R, V] Understand, recall and apply addition facts up to and including $9 + 9$ and related subtraction facts.	Part	Unit	Lessons
		1	1	PA3-3
		1	3	NS3-18 to 21

Number				
11.	Demonstrate an understanding of multiplication to 5×5 by: <ul style="list-style-type: none"> • representing and explaining multiplication using equal grouping and arrays • creating and solving problems in context that involve multiplication • modelling multiplication using concrete and visual representations, and recording the process symbolically • relating multiplication to repeated addition • relating multiplication to division. [C, CN, PS, R]	Part	Unit	Lessons
		1	6	NS3-28 NS3-32 to 38
		1	7	NS3-39 to 41, 44, 46, 47
		2	10	NS3-60, 61
	Understand and recall multiplication facts to 5×5 .	2	14	ME3-27
12.	Demonstrate an understanding of division (limited to division related to multiplication facts up to 5×5) by: <ul style="list-style-type: none"> • representing and explaining division using equal sharing and equal grouping • creating and solving problems in context that involve equal sharing and equal grouping • modelling equal sharing and equal grouping using concrete and visual representations, and recording the process symbolically • relating division to repeated subtraction • relating division to multiplication. [C, CN, PS, R]	Part	Unit	Lessons
		2	10	NS3-48 to 53, 54*, 55*, 56 to 61
	Understand and recall division facts related to multiplication facts to 5×5 .	2	14	ME3-27
13.	Demonstrate an understanding of fractions by: <ul style="list-style-type: none"> • explaining that a fraction represents a part of a whole • describing situations in which fractions are used • comparing fractions of the same whole that have like denominators. [C, CN, ME, R, V]	Part	Unit	Lessons
		2	12	NS3-62 to 69

Patterns & Relations — Patterns			
General Outcome			
Use patterns to describe the world and to solve problems.			
Specific Outcomes	JUMP Math Lessons		
1. Demonstrate an understanding of increasing patterns by: <ul style="list-style-type: none"> • describing • extending • comparing • creating numerical (numbers to 1000) and non-numerical patterns using manipulatives, diagrams, sounds and actions. [C, CN, PS, R, V]	Part	Unit	Lessons
	1	1	<u>PA3-1, 7</u> PA3-2, 5, 6, 8, 9
	1	6	NS3-27
	2	11	PA3-13, 15
2. Demonstrate an understanding of decreasing patterns by: <ul style="list-style-type: none"> • describing • extending • comparing • creating numerical (numbers to 1000) and non-numerical patterns using manipulatives, diagrams, sounds and actions. [C, CN, PS, R, V]	Part	Unit	Lessons
	1	1	<u>PA3-7</u> PA3-4 to 6, 9
	1	6	NS3-27
	2	11	PA3-13, 15
3. Sort objects or numbers, using one or more than one attribute. [C, CN, R, V]	Part	Unit	Lessons
	1	1	<u>PA3-10</u>
	1	5	G3-1, 2, 4
	1	6	NS3-27*
Patterns & Relations — Variables and Equations			
General Outcome			
Represent algebraic expressions in multiple ways.			
Specific Outcomes	JUMP Math Lessons		
4. Solve one-step addition and subtraction equations involving a symbol to represent an unknown number. [C, CN, PS, R, V]	Part	Unit	Lessons
	1	3	<u>NS3-24</u>
	2	11	PA3-16 to 19

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Shape & Space — Measurement

General Outcome

Use direct and indirect measurement to solve problems.

Specific Outcomes		JUMP Math Lessons		
1.	Relate the passage of time to common activities, using nonstandard and standard units (minutes, hours, days, weeks, months, years). [CN, ME, R]	Part	Unit	Lessons
		2	13	ME3-14, 22
2.	Relate the number of seconds to a minute, the number of minutes to an hour and the number of days to a month in a problem-solving context. [C, CN, PS, R, V]	Part	Unit	Lessons
		2	13	ME3-21
3.	Demonstrate an understanding of measuring length (cm, m) by: <ul style="list-style-type: none"> • selecting and justifying referents for the units cm and m • modelling and describing the relationship between the units cm and m • estimating length, using referents • measuring and recording length, width and height. [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		1	4	ME3-1 to 4, 6
4.	Demonstrate an understanding of measuring mass (g, kg) by: <ul style="list-style-type: none"> • selecting and justifying referents for the units g and kg • modelling and describing the relationship between the units g and kg • estimating mass, using referents • measuring and recording mass. [C, CN, ME, PS, R, V]	Part	Unit	Lessons
		2	14	ME3-25, 26
5.	Demonstrate an understanding of perimeter of regular and irregular shapes by: <ul style="list-style-type: none"> • estimating perimeter, using referents for cm or m • measuring and recording perimeter (cm, m) • constructing different shapes for a given perimeter (cm, m) to demonstrate that many shapes are possible for a perimeter. [C, ME, PS, R, V]	Part	Unit	Lessons
		1	4	ME3-7, 8
		1	6	NS3-38

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Shape & Space — 3-D Objects and 2-D Shapes

General Outcome

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

Specific Outcomes		JUMP Math Lessons		
6.	Describe 3-D objects according to the shape of the faces and the number of edges and vertices. [C, CN, PS, R, V]	Part	Unit	Lessons
		2	17	G3-19 to 23
7.	Sort regular and irregular polygons, including: • triangles • quadrilaterals • pentagons • hexagons • octagons according to the number of sides. [C, CN, R, V]	Part	Unit	Lessons
		1	5	G3-3, 4

Statistics & Probability — Data Analysis

General Outcome

Collect, display and analyze data to solve problems.

Specific Outcomes		JUMP Math Lessons		
1.	Collect first-hand data and organize it using: • tally marks • line plots • charts • lists to answer questions. [C, CN, PS, V] [ICT: C4-1.3]	Part	Unit	Lessons
		1	5	G3-2
		1	9	PDM3-1 to 3
		2	18	PDM3-4
2.	Construct, label and interpret bar graphs to solve problems. [C, PS, R, V] [ICT: C4-1.3, C7-1.3, C7-1.40]	Part	Unit	Lessons
		2	18	PDM3-7

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