

Grade 6 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.

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.	Demonstrate an understanding of place value, including numbers that are: • greater than one million • less than one thousandth. [C, CN, R, T]	Part	Unit Lessons
		1	2 NS6-1 to 4
		2	9 <i>NS6-38, 39</i> NS6-40
2.	Solve problems involving whole numbers and decimal numbers. [ME, PS, T] [ICT: C6-2.4] <i>Note: Through this outcome, students have the opportunity to maintain and refine previously learned multiplication and division number facts (Grade 5) and operations with whole numbers (Grades 4 and 5).</i>	Part	Unit Lessons
		1	2 <i>NS6-5</i> NS6-4, 6
		1	4 NS6-15, 17
		2	9 NS6-45 to 47

COPYRIGHT © 2018 JUMP MATH: NOT TO BE COPIED.

Number				
3.	Demonstrate an understanding of factors and multiples by: <ul style="list-style-type: none"> determining multiples and factors of numbers less than 100 identifying prime and composite numbers solving problems using multiples and factors. [CN, R, V] <i>Note: Through this outcome, students have the opportunity to maintain and refine previously learned multiplication and division number facts (Grade 5).</i>	Part	Unit	Lessons
		1	7	NS6-20 NS6-18, 19, 21, 23
4.	Relate improper fractions to mixed numbers and mixed numbers to improper fractions. [CN, ME, R, V]	Part	Unit	Lessons
		1	8	NS6-26, 28, 32, 34, 35 NS6-29 to 31, 33, 36, 37
5.	Demonstrate an understanding of ratio, concretely, pictorially and symbolically. [C, CN, PS, R, V]	Part	Unit	Lessons
		2	14	NS6-63 NS6-58 to 60
6.	Demonstrate an understanding of percent (limited to whole numbers), concretely, pictorially and symbolically. [C, CN, PS, R, V]	Part	Unit	Lessons
		2	14	NS6-64 to 67, 69, 70
7.	Demonstrate an understanding of integers, concretely, pictorially and symbolically. [C, CN, R, V]	Part	Unit	Lessons
		1	2	NS6-7, 8
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]	Part	Unit	Lessons
		1	4	NS6-12, 13, 16 NS6-9 to 11, 14
		2	9	NS6-44
		2	10	NS6-48 to 53, 57
9.	Explain and apply the order of operations, excluding exponents, with and without technology (limited to whole numbers). [C, CN, ME, PS, V] [ICT: C6-2.4, C6-2.7] <i>Note: Through this outcome, students have the opportunity to maintain and refine previously learned multiplication and division number facts (Grade 5) and operations with whole numbers (Grades 4 and 5).</i>	Part	Unit	Lessons
		1	7	NS6-24

Patterns & Relations — Patterns

General Outcome

Use patterns to describe the world and to solve problems.

Specific Outcomes		JUMP Math Lessons		
		Part	Unit	Lessons
1.	Represent and describe patterns and relationships, using graphs and tables. [C, CN, ME, PS, R, V]	2	12	PA6-16, 17, 20
2.	Demonstrate an understanding of the relationships within tables of values to solve problems. [C, CN, PS, R]	1	1	PA6-3 PA6-4, 5, 7, 8
		1	5	ME6-4
		2	12	PA6-16, 17, 19, 20

Patterns & Relations — Variables and Equations

General Outcome

Represent algebraic expressions in multiple ways.

Specific Outcomes		JUMP Math Lessons		
		Part	Unit	Lessons
3.	Represent generalizations arising from number relationships, using equations with letter variables. [C, CN, PS, R, V]	1	1	PA6-6 to 8
		2	12	PA6-18 to 20
4.	Express a given problem as an equation in which a letter variable is used to represent an unknown number. [C, CN, PS, R]	2	12	PA6-9, 10, 14, 15
5.	Demonstrate and explain the meaning of preservation of equality, concretely and pictorially. [C, CN, PS, R, V]	2	12	PA6-10 to 13

Shape & Space — Measurement				
General Outcome				
Use direct and indirect measurement to solve problems.				
Specific Outcomes		JUMP Math Lessons		
1.	Demonstrate an understanding of angles by: <ul style="list-style-type: none">identifying examples of angles in the environmentclassifying angles according to their measureestimating the measure of angles, using 45°, 90° and 180° as reference anglesdetermining angle measures in degreesdrawing and labelling angles when the measure is specified. [C, CN, ME, V]	Part	Unit	Lessons
		1	6	G6-1 to 5
2.	Demonstrate that the sum of interior angles is: <ul style="list-style-type: none">180° in a triangle360° in a quadrilateral. [C, R]	Part	Unit	Lessons
		1	6	G6-9
3.	Develop and apply a formula for determining the: <ul style="list-style-type: none">perimeter of polygonsarea of rectanglesvolume of right rectangular prisms. [C, CN, PS, R, V]	Part	Unit	Lessons
		1	5	ME6-1, 2 ME6-4, 5
		2	13	ME6-8 to 10
		2	16	ME6-17 to 19, 21

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		
4.	Construct and compare triangles, including: <ul style="list-style-type: none">scaleneisoscelesequilateralrightobtuseacute in different orientations. [C, PS, R, V]	Part	Unit	Lessons
		1	6	G6-7 G6-8
5.	Describe and compare the sides and angles of regular and irregular polygons. [C, PS, R, V]	Part	Unit	Lessons
		1	6	G6-6

COPYRIGHT © 2018 JUMP MATH: NOT TO BE COPIED.

Shape & Space — Transformations

General Outcome

Describe and analyze position and motion of objects and shapes.

Specific Outcomes		JUMP Math Lessons		
6.	Perform a combination of translations, rotations and/or reflections on a single 2-D shape, with and without technology, and draw and describe the image. [C, CN, PS, T, V]	Part	Unit	Lessons
		2	11	G6-13 to 17
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]	Part	Unit	Lessons
		2	11	G6-17
8.	Identify and plot points in the first quadrant of a Cartesian plane, using whole number ordered pairs. [C, CN, V]	Part	Unit	Lessons
		2	11	G6-18
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]	Part	Unit	Lessons
		2	11	G6-19, 20

Statistics & Probability — Data Analysis				
General Outcome				
Collect, display and analyze data to solve problems.				
Specific Outcomes		JUMP Math Lessons		
1.	Create, label and interpret line graphs to draw conclusions. [C, CN, PS, R, V]	Part	Unit	Lessons
		1	3	PDM6-1 PDM6-3 to 6
2.	Select, justify and use appropriate methods of collecting data, including: <ul style="list-style-type: none">• questionnaires• experiments• databases• electronic media. [C, CN, PS, R, T]	Part	Unit	Lessons
		2	15	PMD6-14, 16
3.	Graph collected data, and analyze the graph to solve problems. [C, CN, PS, R, T]	Part	Unit	Lessons
		2	15	PDM6-16, 17
Statistics & Probability — Chance and Uncertainty				
General Outcome				
Use experimental or theoretical probabilities to represent and solve problems involving uncertainty.				
Specific Outcomes		JUMP Math Lessons		
4.	Demonstrate an understanding of probability by: <ul style="list-style-type: none">• 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 experiment• comparing experimental results with the theoretical probability for an experiment. [C, ME, PS, T]	Part	Unit	Lessons
		2	15	PDM6-7 to 11

COPYRIGHT © 2018 JUMP MATH: NOT TO BE COPIED.