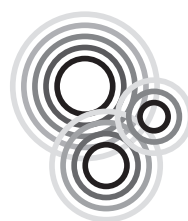


## Manitoba Curriculum Correlations

# JUMP Math

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**JUMP Math**

Toronto, Ontario

[www.jumpmath.org](http://www.jumpmath.org)

**Notes**

Abbreviations for Mathematical Processes:

- [C] Communications
- [CN] Connections
- [ME] Mental Mathematics and Estimation
- [PS] Problem Solving
- [R] Reasoning
- [T] Technology
- [V] Visualization

JUMP Math units are represented by:

- NS Number Sense
- PA Patterns & Algebra
- ME Measurement
- G Geometry
- PDM Probability & Data Management

# JUMP Math–Manitoba Curriculum Correlations: Grade 1

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Grade 1 Part 1</b>		
<b>Unit 1</b>		
<b>Number Sense</b>		
NS1-1	Counting	K.N.1, K.N.3, 1.N.1, 1.N.2, 1.N.3, 1.N.4, [R, CN, C]
NS1-2	Match by Counting	K.N.1, K.N.3, 1.N.1, 1.N.2, 1.N.3, [R, CN, C]
NS1-3	There is Order Here	K.N.1, 1.N.1, [R, CN]
NS1-4	The Number That Means Nothing	1.N.1, [R, CN, C]
NS1-5	Writing Numbers	K.N.1, K.N.3, 1.N.1, 1.N.3, [R, CN, C]
NS1-6	Counting Using a Chart	K.N.1, K.N.3, 1.N.1, 1.N.3, [R, CN, C]
NS1-7	More and Less	K.N.5, 1.N.5, [R, CN]
NS1-8	One-to-One Correspondence	K.N.5, 1.N.5, [R, CN, V, C]
NS1-9	How Many More?	K.N.5, 1.N.5, [R, C]
NS1-10	Counting On	1.N.5, [R, C]
NS1-11	Counting to 20	1.N.1, 1.N.3, [R, CN, C]
NS1-12	Using a Chart to Count to 20	1.N.4, [R, CN, V]
NS1-13	Tens and Ones Blocks	1.N.4, [R, CN]
NS1-14	Ordering Numbers	1.N.4, 1.N.5, [R, V, C]
NS1-15	Comparing to 5 or 10	K.N.5, 1.N.3, 1.N.4, 1.N.5, 1.N.8, [R, V, C]
NS1-16	Adding	1.N.9, [R, CN]
NS1-17	More Adding	1.N.9, [R, V, CN]
NS1-18	Addition and Order	1.N.9, [R, CN, V, C]
NS1-19	Subtracting	1.N.9, [R, V, C]
NS1-20	Closer and Farther	1.N.6, [R, V, C]
NS1-21	Estimating How Many	1.N.6, [R, V, C, ME]
NS1-22	First, Last, and In Between	1.N.5, [R, C]
NS1-23	Problems and Puzzles	N/A
<b>Unit 2</b>		
<b>Patterns &amp; Algebra</b>		
PA1-1	Cores of Patterns	K.PR.1, 1.PR.1
PA1-2	A Core that Ends the Way it Starts	1.PR.1, [C, R]
PA1-3	Pattern Rules	1.PR.1, [C]
PA1-4	The Reading Pattern	1.PR.1, [CN, C]
PA1-5	Showing Patterns in Different Ways	1.PR.1, 1.PR.2, [C, CN, R]
PA1-6	Correcting Mistakes in Patterns	1.PR.1, [PS]
PA1-7	Problems and Puzzles	N/A

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
<b>Unit 3</b>	<b>Measurement</b>	
ME1-1	Length	K.SS.1, 1.SS.1, [R, C]
ME1-2	Width	K.SS.1, 1.SS.1, [R, CN, C]
ME1-3	Long or Short, Narrow or Wide	1.SS.1, [R, C]
ME1-4	Height	K.SS.1, 1.SS.1, [R, V, C]
ME1-5	Compared to a Metre Stick	1.SS.1, [R]
ME1-6	More Length	1.SS.1, [R, PS, C]
ME1-7	The Distance Around	1.SS.1, [R, PS, C]
ME1-8	Measuring Length	1.SS.1, [R, CN, V, C]
ME1-9	Estimating and Measuring Length	1.SS.1, [R, ME, C]
ME1-10	Units of Measurement	1.SS.1, [R, C]
ME1-11	Length and Distance	1.SS.1, [R, PS, C]
ME1-12	Comparing Units of Measurement	2.SS.2
ME1-13	When You Do Not Have Many Units	1.SS.1, 2.SS.4 [PS, R, C]
ME1-14	How Many Will Fit?	2.SS.2, 2.SS.4
ME1-15	Comparing Masses	K.SS.1, 1.SS.1, [R]
ME1-16	Balances	1.SS.1, [R, C]
ME1-17	Heavy or Light?	1.SS.1, [R, V, C]
ME1-18	Measuring Mass	1.SS.1, [R, C]
ME1-19	Estimating and Measuring Mass	1.SS.1, [R, ME]
ME1-20	Comparing Units	2.SS.2
ME1-21	Problems and Puzzles	N/A
<b>Unit 4</b>	<b>Geometry</b>	
G1-1	Sides and Corners	1.SS.2, [CN, R]
G1-2, 3	The Square, The Rectangle	1.SS.2, [C, R]
G1-4	More Sides and Corners	1.SS.2, [C, V]
G1-5	Rectangles and Squares	1.SS.2, [C, CN, R]
G1-6	The Triangle	1.SS.2, [C]
G1-7	The Circle	1.SS.2, [C]
G1-8	Identifying Shapes	1.SS.3, [C, R, V]
G1-9	Counting Shapes	1.SS.3, [C, R, V]
G1-10, 11	Matching Shapes, Lines of Symmetry	1.SS.2, [V]
G1-12	Creating Symmetrical Shapes	1.SS.2, 1.SS.3 [C, R, V]
G1-13	Problems and Puzzles	N/A

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
<b>Unit 5</b>	<b>Probability &amp; Data Management</b>	
PDM1-1	Sorting into Groups	K.SS.2, 1.SS.2, [C, CN]
PDM1-2	Sorting into Groups	1.SS.2, [C, CN]
PDM1-3	Does It Belong?	1.SS.2, [C, R]
PDM1-4	Differences and Sorting	K.SS.2, 1.SS.2, [C, R]
PDM1-5	Sorting Rules	1.SS.2, [C, R]
PDM1-6	Sorting Rules–Many Groups	1.SS.2, [C, R]
<b>Grade 1 Part 2</b>		
<b>Unit 1</b>	<b>Number Sense</b>	
NS1-24	Reading Number Words (Zero to Ten)	1.N.4, [R, CN]
NS1-25	Writing Number Words to Ten	1.N.4, [R, CN, C]
NS1-26	Reading Number Words to Twenty	1.N.4, [R, CN, C]
NS1-27	Counting to 100	1.N.1, 1.N.3, [R, CN, C], 2.N.4, 2.N.7
NS1-28	What Comes Next?	1.N.1, 1.N.8, [R, C], 2.N.1
NS1-29	Tens and Ones Blocks	1.N.4, [R, CN], 2.N.4, 2.N.7
NS1-30	Ordering Numbers to 50	1.N.4, [R, C], 2.N.5, 2.N.7
NS1-31	Addition Word Problems	1.N.9, [R, V, CN], 2.N.9
NS1-32	Subtraction Word Problems	1.N.9, [R, V, C], 2.N.9
NS1-33	Adding or Subtracting	1.N.9, [R, V, C], 2.N.9
NS1-34	Adding Using a Chart	1.N.9, [R, V], 2.N.9
NS1-35	Counting On to Add 1 or 2	1.N.10, [CN], 2.N.10
NS1-36	Counting On to Add	1.N.3, 1.N.10, [C, R, CN], 2.N.10
NS1-37	Counting On in Two Ways	1.N.10, [R, C], 2.N.10
NS1-38	Using Number Lines to Add	1.N.9, [R, CN, V, C], 2.N.9
NS1-39	Subtracting 1 or 2	1.N.9, [R, CN, V, C], 2.N.9
NS1-40	Using Number Lines to Subtract	1.N.9, [R, CN, V, C], 2.N.9
NS1-41	Counting Back	1.N.1, 1.N.8, [R, CN], 2.N.9
NS1-42	Counting Back to Subtract	1.N.1, 1.N.8, 1.N.10, [R, CN, V, C], 2.N.10
NS1-43	Adding 5 or 10	1.N.1, 1.N.8, 1.N.10, [R, CN, C], 2.N.10
NS1-44	Pairs Adding to 5 or 10	1.N.4, 1.N.10, [V, C], 2.N.10
NS1-45	One More, One Less	1.N.10, [R, V, C], 2.N.10
NS1-46	Patterns in Adding	1.N.4, [R, CN, V, C], 2.N.9
NS1-47	Models for Adding	1.N.4, 1.N.7, [R, CN, C], 2.N.9
NS1-48	Using 5 or 10 to Add	1.N.10, [R, CN, C], 2.N.10

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS1-49	Number Lines and Number Sentences	1.N.10, [R, CN, C], 2.N.10
NS1-50	Pictures and Number Sentences	1.N.10, [R], 2.N.10
NS1-51	Counting Forwards to Subtract	1.N.10, [R, CN], 2.N.10
NS1-52	Skip Counting by 2s	1.N.1, 1.N.8, [R, C], 2.N.1
NS1-53	Skip Counting by 5s and 10s	1.N.1, 1.N.8, [R, C], 2.N.1
NS1-54	Grouping to Count	1.N.1, 1.N.3, 1.N.8, [R, CN, C], 2.N.1
NS1-55	Grouping to Estimate	1.N.1, 1.N.3, 1.N.8, [R, C], 2.N.6
NS1-56	Skip Counting Backwards	1.N.1, 1.N.8, [R, C], 2.N.1
NS1-57	Identifying Coins	2.N.4
NS1-58	Coin Values	2.N.4
NS1-59	How Much Money?	2.N.4
NS1-60	Adding and Subtracting Money	2.N.4
NS1-61	Doubles	1.N.10, [R, CN, V, C], 2.N.10
NS1-62	Using Doubles to Add	1.N.10, [R, CN], 2.N.10
NS1-63	Half and Quarter	3.N.13
NS1-64	Ordinal Numbers to 39th	2.N.3
NS1-65	Problems and Puzzles	N/A
<b>Unit 2</b>	<b>Patterns &amp; Algebra</b>	
PA1-8	Patterns in the Hundreds Chart	1.PR.1 [C, R], 2.PR.1, 2.PR.2
PA1-9	Equality and Inequality with Balances	1.PR.3, 1.PR.4, [CN, V], 2.PR.3
PA1-10	Two Ways to Find the Same Total	1.PR.3, 1.PR.4, [C, CN, R, V], 2.PR.3
PA1-11	Two Models to Show the Same Total	1.PR.4, [R, CN, V], 2.PR.3
PA1-12	Use Models to Solve Problems	1.PR.4, [R, V], 2.PR.3
<b>Unit 3</b>	<b>Measurement</b>	
ME1-22	Rulers	2.SS.2, 2.SS.4, [R, C]
ME1-23	Centimetres	3.SS.3
ME1-24	Clock Faces	3.SS.1
ME1-25	What Takes Longer?	3.SS.1
ME1-26	Using Metric to Compare Times	3.SS.1
ME1-27	Using Clocks to Measure Time	3.SS.1
ME1-28	Sand-Timers	3.SS.1
ME1-29	The Hour Hand	4.SS.1
ME1-30	Time to the Hour	4.SS.1
ME1-31	Time to the Half-Hour	4.SS.1

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
ME1-32	Days, Months, and Seasons	2.SS.1
ME1-33	Comparing Areas	1.SS.1, [R, C]
ME1-34	Measuring Area	1.SS.1, [R, CN, C]
ME1-35	What Holds More?	1.SS.1, [R, CN, C]
ME1-36	Capacity	1.SS.1, [R, CN, C]
ME1-37	Measuring Capacity	1.SS.1, [R, CN, C]
ME1-38	Measuring Cups	1.SS.1, [CN, C]
ME1-39	Problems and Puzzles	N/A
<b>Unit 4</b>	<b>Geometry</b>	
G1-14	Cubes	K.SS.2, 1.SS.2, 1.SS.4, [C, CN, R], 2.SS.7
G1-15	Spheres, Cylinders, and Cones	K.SS.2, 1.SS.2, 1.SS.4, [C, CN, V], 2.SS.7
G1-16	Finding 3-D Shapes	1.SS.3, [C, CN, V]
G1-17	Corners	1.SS.2, [C, R, V], 3.SS.6
G1-18	Faces	1.SS.2, [C, CN, V], 2.SS.7, 2.SS.9
G1-19	Edges	1.SS.2, [C, CN, R, V], 3.SS.6
G1-20	What Do They See?	1.SS.4 [C, V], 2.SS.9
G1-21	Curved and Flat Faces	1.SS.2, 1.SS.3, 1.SS.4 [C, CN, R, V]
G1-22	Location Words	N/A
G1-23	More Location Words	N/A
G1-24	Maps	N/A
G1-25	Problems and Puzzles	N/A
<b>Unit 5</b>	<b>Probability &amp; Data Management</b>	
PDM1-7	Sorting and Graphing	2.SP.1, 2.SP.2
PDM1-8	Pictographs	2.SP.1, 2.SP.2
PDM1-9	Charts	2.SP.2
PDM1-10	Tallies	2.SP.1.1
PDM1-11	Asking Questions About Data	2.SP.2
PDM1-12	Surveys	2.SP.1
PDM1-13	Always or Never?	5.SP.3
PDM1-14	Likely or Unlikely?	5.SP.3
PDM1-15	Describing Events	5.SP.3





# JUMP Math–Manitoba Curriculum Correlations: Grade 2

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Grade 2 Part 1</b>		
<b>Unit 1</b>	<b>Number Sense</b>	
NS2-1	Counting	1.N.1, 1.N.3, [R, CN, V, C]
NS2-2	Matching	1.N.1, 1.N.2, 1.N.3, [CN, T]
NS2-3	One-to-One Correspondence	1.N.5, [R, CN]
NS2-4	Counting with a Chart	1.N.1, 1.N.3, [R, CN]
NS2-5	More, Fewer, and Less	1.N.5, 1.N.8, [R, C]
NS2-6	How Many More?	1.N.5, [R, CN, C, V]
NS2-7	Reading Number Words to Ten	1.N.4, [R]
NS2-8	Addition	1.N.9, [R, V, CN, C]
NS2-9	Subtraction	1.N.9, [R, V]
NS2-10	Adding and Subtracting 0	2.N.8, [R, V, C]
NS2-11	Counting to 20	1.N.1, 1.N.3, [R, C, CN, V]
NS2-12	The Reading Pattern	1.N.10, [R, C]
NS2-13	Adding Using a Chart	1.N.10, [R, C]
NS2-14	Tens and Ones Blocks	1.N.4, [R, CN, C]
NS2-15	Reading Number Words to Twenty	1.N.4, [R, CN, C]
NS2-16	Writing Number Words to Twenty	2.N.4, [PS, R, CN, C]
NS2-17	First Word Problems	1.N.9, [R, CN, V, C]
NS2-18	Making Word Problems	2.N.9, [R, C]
NS2-19	Ordinal Numbers	2.N.3, [C]
NS2-20	Writing Ordinals	2.N.3, [R,C]
NS2-21	Counting to 100	1.N.1, 2.N.4, 2.N.7, [R, C, CN]
NS2-22	Hundreds Charts	2.N.4, [R, C]
NS2-23	More Tens and Ones Blocks	2.N.4, 2.N.7, [R, C]
NS2-24	Ordering Numbers to 100	2.N.5, 2.N.7, [R, C, CN]
NS2-25	Many Ways to Write a Number	2.N.4, [R, C]
NS2-26	Using Length to Add and Subtract	2.N.9, [R, C, CN, V]
NS2-27	Equal or Not Equal	2.PR.4, [R, V, C]
NS2-28	Equality and Inequality with Balances	2.PR.3, [R, C, CN]
NS2-29	Missing Numbers	2.N.4, [R, C, V, T]
NS2-30	Adding, Subtracting, and Order	2.N.9, [R, CN, V, C]
NS2-31	Adding with a Number Line	2.N.9, [R, CN, V, C]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS2-32	Adding by Counting On	1.N.10, 2.N.9, [R, C, CN]
NS2-33	Subtracting with a Number Line	1.N.10, 2.N.9, [R, C, CN, V]
NS2-34	Subtracting by Counting Backwards	1.N.10, [R, CN, C]
NS2-35	Comparing Number Sentences	2.N.10, [CN, R, V, C]
NS2-36	Subtracting by Counting On	2.N.10, [R, C]
NS2-37	Subtracting in Word Problems	2.N.9, [CN]
NS2-38	More Missing Numbers	2.N.9, [V, R, C]
NS2-39	Missing Numbers in Word Problems	2.N.9, [R]
NS2-40	Making 10	2.N.10, [R,c]
NS2-41	Adding 10 and Subtracting 10	2.N.9, 2.N.10
NS2-42	More Adding and Subtracting 10	2.N.10, [R, V, C]
NS2-43	Hundreds Chart Pieces	2.N.9, [R, V]
NS2-44	Problems and Puzzles	N/A
<b>Unit 2</b>	<b>Patterns &amp; Algebra</b>	
PA2-1	Finding the Core and Extending Patterns	1.PR.1, 2.PR.2 [C]
PA2-2	What Changes?	1.PR.1, 2.PR.1
PA2-3	Cores That End the Way They Start	1.PR.1, 2.PR.1 [CN, V]
PA2-4	Pattern Rules	1.PR.1, 2.PR.1, [C, R, V]
PA2-5	Showing Patterns in Different Ways	1.PR.1, 1.PR.2, 2.PR.1, [C, CN]
PA2-6	The Reading Pattern	2.PR.1, [CN]
PA2-7	Predicting Terms	2.PR.1, [C, CN, R]
PA2-8	Problems and Puzzles	N/A
<b>Unit 3</b>	<b>Measurement</b>	
ME2-1	Length	1.SS.2, 2.SS.8
ME2-2	Width and Height	1.SS.1, [C, CN, V]
ME2-3	Long or Short	1.SS.1, [ME, R, V, C]
ME2-4	More Length	1.SS.1, [R, PS, ME, C, V]
ME2-5	Distance Around	1.SS.1, [PS, R, ME, C]
ME2-6	Measuring Length	2.SS.3, 2.SS.4, [R, ME, V, C, CN]
ME2-7	Units	2.SS.3, 2.SS.4, 2.SS.5, [R, C]
ME2-8	How to Measure	2.SS.3, 2.SS.4, [R, PS, C]
ME2-9	Measuring Distance	2.SS.3, [R, V, C]
ME2-10	Measuring the Distance Around	2.SS.3, [PS, R, ME, C], 3.SS.5

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
ME2-11	Comparing Units	2.SS.2, [R, C]
ME2-12	When You Do Not Have Many Units	2.SS.2, 2.SS.3, 2.SS.4, [R, C]
ME2-13	Estimating	2.SS.2, 2.SS.4, [ME, R, C]
ME2-14	Centimetres	3.SS.3
ME2-15	Measuring Using Centimetre Grids	3.SS.3
ME2-16	Estimating Centimetres	3.SS.3
ME2-17	Metres	3.SS.3
ME2-18	Estimating Metres	3.SS.3
ME2-19	Comparing Masses	1.SS.1, 2.SS.3, [R, CN, C, V]
ME2-20	Measuring Mass	1.SS.1, 2.SS.3, [R, C, CN]
ME2-21	Estimating and Measuring Mass	2.SS.3, [R, ME, C]
ME2-22	Comparing Units	2.SS.2, [R, C]
ME2-23	Problems and Puzzles	2.SS.2, [R, C, CN]
<b>Unit 4</b>	<b>Geometry</b>	
G2-1	Lines	1.SS.2, 2.SS.8, [CN, V]
G2-2	Sides and Vertices	2.SS.8, [CN, R, V]
G2-3	Squares	1.SS.2, 1.SS.4, 2.SS.8, 2.SS.9 [CN, V]
G2-4	Rectangles	1.22.S, 1.SS.4, 2.SS.8, 2.SS.9 [C, CN, R, V]
G2-5	Triangles	1.SS.2, 1.SS.4, 2.SS.8, 2.SS.9, [C, V]
G2-6	Circles	1.SS.2, 1.SS.4, 2.SS.8, 2.SS.9 [CN, V]
G2-7	Polygons	3.SS.7
G2-8	About Polygons	3.SS.7
G2-9	Matching Shapes	2.SS.8 [CN, V], 4.SS.5
G2-10	Lines of Symmetry	4.SS.5, 4.SS.6
G2-11	Creating Symmetrical Shapes	4.SS.5, 4.SS.6
G2-12	Breaking and Creating Shapes	2.SS.8 [CN, V]
G2-13	Making Polygon Shapes	N/A
G2-14	Problems and Puzzles	N/A
<b>Unit 5</b>	<b>Probability &amp; Data Management</b>	
PDM2-1	Sorting into Groups	1.SS.2, 2.SS.6 [CN, R]
PDM2-2	Sorting into Many Groups	1.SS.2, 2.SS.6 [C, CN, R, V]
PDM2-3	Sorting Rules	1.SS.2, 2.SS.6, [C, CN, R, V]
PDM2-4	Sorting Rules — Many Groups	1.SS.2, 2.S.S6, [C, CN, R, V]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
PDM2-5	Sort and Graph	2.SP.1, 2.SP.2 [C, CN, R, V]
PDM2-6	Pictographs	2.SP.1, 2.SP.2 [C, CN, PS, R, V]
<b>Grade 2 Part 2</b>		
<b>Unit 1</b>	<b>Number Sense</b>	
NS2-45	Skip Counting	1.N.1, 1.N.3, 2.N.1, [CN, C, V, R]
NS2-46	Closer To	2.N.6, [V, C, R]
NS2-47	Estimating Numbers	1.N.6, 2.N.6, [ME, V]
NS2-48	Even and Odd	2.N.2, [R, V, C, CN]
NS2-49	Patterns with Even and Odd	2.N.2, [R, CN, C]
NS2-50	Patterns in Adding	1.N.4, [V, R, CN, C]
NS2-51	Adding Tens and Ones	2.N.4, 2.N.7, [R, C]
NS2-52	Adding in Two Ways	2.N.4, [CN, V, R]
NS2-53	Addition Strategies	1.N.9, 2.N.4, 2.N.9, [C, V, R]
NS2-54	Using 10 to Add	1.N.10, 2.N.10, [C, R, CN]
NS2-55	Using Tens and Ones to Add	2.N.4, 2.N.7, [R, C]
NS2-56	Regrouping	3.N.5, [C, CN, R, V]
NS2-57	The Standard Algorithm for Addition	3.N.6, 3.N.8
NS2-58	Doubles	1.N.10, 2.N.10, [R, V]
NS2-59	Using Doubles to Add	1.N.10, 2.N.10, [C, R, ME], 3.N.10
NS2-60	Using Doubles to Add	1.N.10, 2.N.9, 2.N.10, [R, CN, C, T], 3.N.6, 3.N.7, 3.N.10
NS2-61	More Subtraction Strategies	1.N.10, 2.N.4, 2.N.9, 2.N.10, [R, V, ME, C], 3.N.6, 3.N.7, 3.N.10
NS2-62	Subtracting Using Tens and Ones	3.N.6, 3.N.7, 3.N.10
NS2-63	Regrouping for Subtraction	3.N.10
NS2-64	The Standard Algorithm for Subtraction	3.N.10
NS2-65	Three-Digit Numbers	3.N.2
NS2-66	Skip Counting to 200	3.N.1, 3.N.2
NS2-67	Skip Counting by Different Numbers	2.N.4, [V]
NS2-68	Coin Values	2.N.4, [CN]
NS2-69	Estimating and Counting Money	2.N.1, 2.N.4, 2.N.7, [CN, R, ME, C]
NS2-70	Adding Money	2.N.9, [R, CN, C]
NS2-71	Subtracting Money	3.N.6, 3.N.7
NS2-72	Fractions	3.N.13

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS2-73	Comparing Fractions	3.N.13
NS2-74	Adding Fractions	7.N.5
NS2-75	Multiplication	3.N.11
NS2-76	Multiplication by Skip Counting	3.N.11
NS2-77	Multiplication — Advanced	3.N.11
NS2-78	Division	3.N.12
NS2-79	How Many Groups?	3.N.12
NS2-80	Problems and Puzzles	N/A
<b>Unit 2</b>	<b>Patterns &amp; Algebra</b>	
PA2-9	Growing Patterns	2.PR.2 [CN, R]
PA2-10	Shrinking Patterns	3.PR.2
PA2-11	Describing Patterns	2.PR.2 [C, CN, R], 3.PR.1, 3.PR.2
PA2-12	Identifying Patterns	3.PR.1, 3.PR.2
PA2-13	Patterns in a Hundreds Chart	2.PR.2 [C, R]
PA2-14	Finding Mistakes	2.PR.2 [C, R]
PA2-15	Showing Patterns in Different Ways	2.PR.2, [C, CN], 3.PR.2
<b>Unit 3</b>	<b>Measurement</b>	
ME2-24	Comparing Lines	3.SS.1
ME2-25	Measuring Time	3.SS.1
ME2-26	Estimating Time	3.SS.1
ME2-27	Your Own Unit	3.SS.1
ME2-28	Clock Faces	4.SS.1
ME2-29	Measuring Time with Clocks	3.SS.1
ME2-30	The Hour Hand	4.SS.1
ME2-31	Time to the Hour	4.SS.1
ME2-32	The Minute Hand	4.SS.1
ME2-33	Time to the Half Hour	4.SS.1
ME2-34	Quarter Past	4.SS.1
ME2-35	Quarter To	4.SS.1
ME2-36	Comparing Areas	1.SS.1
ME2-37	Measuring Area	1.SS.1
ME2-38	Comparing Units of Area	N/A
ME2-39	Days and Months	2.SS.1, [CN, R]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
ME2-40	Calendars	2.SS.1, [CN, R], 4.SS.2
ME2-41	Thermometers	N/A
ME2-42	What Holds More?	1.SS.1, 5.SS.4
ME2-43	Capacity	1.SS.1, 5.SS.4
ME2-44	Measuring Capacity	1.SS.1, 5.SS.4
ME2-45	Measuring Cups	1.SS.1, 5.SS.4
ME2-46	Problems and Puzzles	N/A
<b>Unit 4</b>	<b>Geometry</b>	
G2-15	Cubes	1.SS.3, 2.SS.6, 2.SS.7, 2.SS.9 [C, CN]
G2-16	Spheres, Cylinders, and Cones	1.SS.3, 2.SS.6, 2.SS.7, 2.SS.9 [C, CN, V]
G2-17	Pyramids	2.SS.7, 2.SS.9 [R, V]
G2-18	Prisms	3.SS.6
G2-19	Turning 3-D Shapes	1.SS.3
G2-20	Shapes in Structures	1.SS.3, 2.SS.7, 2.SS.9 [C, CN, R]
G2-21	Faces	1.SS.2, 1.SS.4, 2.SS.7, 2.SS.9 [V]
G2-22	Roll, Slide, Stack	1.SS.2, 1.SS.3, 1.SS.4, 2.SS.7 [CN, R]
G2-23	Vertices	3.SS.6
G2-24	Edges	3.SS.6
G2-25	Left, Right, Above, Below	1.SS.3
G2-26	Maps	1.SS.4
G2-27	Problems and Puzzles	1.SS.4
<b>Unit 5</b>	<b>Probability &amp; Data Management</b>	
PDM2-7	Bar Graphs	3.SP.2
PDM2-8	Line Plots	3.SP.1
PDM2-9	Tallies	2.SP.1, [C, R]
PDM2-10	Asking Questions About Data	2.SP.1, 2.SP.2 [C, R]
PDM2-11	Surveys	2.SP.1, 2.SP.2, [C, R]
PDM2-12	Certain or Impossible?	5.SP.3
PDM2-13	Likely or Unlikely?	5.SP.4
PDM2-14	More Likely or Less Likely?	5.SP.4
PDM2-15	More Likely, Equally Likely, or Less Likely?	5.SP.4
PDM2-16	Problems and Puzzles	N/A

# JUMP Math–Manitoba Curriculum Correlations: Grade 3

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Grade 3 Part 1</b>		
<b>Unit 1</b>	<b>Patterns &amp; Algebra</b>	
PA3-1	Counting	2.N.1, 2.N.3, [R, CN, V, C]
PA3-2	Preparation for Increasing Sequences	2.PR.1, 2.PR.2, 3.PR.1, [C, CN, PS, R, V]
PA3-3	Increasing Sequences	2.PR.1, 2.PR.2, 3.PR.1, [C, CN, PS, R, V]
PA3-4	Counting Backwards	2.PR.1, 2.PR.2, 3.PR.2, [C, CN, PS, R, V]
PA3-5	Preparation for Decreasing Sequences	2.PR.1, 2.PR.2, 3.PR.2, [C, CN, PS, R, V]
PA3-6	Decreasing Sequences	2.PR.1, 2.PR.2, 3.PR.2, [C, CN, PS, R, V]
PA3-7	Increasing and Decreasing Sequences	2.PR.1, 2.PR.2, 3.PR.1, 3.PR.2, [C, CN, PS, R, V]
PA3-8	Attributes	2.PR.1, 2.PR.2
PA3-9	Patterns Where Two Attributes Change	2.PR.1, 2.PR.2
PA3-10	Repeating Patterns	2.PR.1, 2.PR.2, 3.PR.1, [C, CN, PS, R, V]
PA3-11	Extending Repeating Patterns	2.PR.1, 2.PR.2
PA3-12	Finding Cores in Patterns	1.PR.1, 2.PR.1
PA3-13	Making Patterns with Squares	4.PR.3
PA3-14	Making Patterns with Squares (Advanced)	4.PR.3
PA3-15	Extending a Pattern Using a Rule	3.PR.1, 3.PR.2, [C, CN, PS, R, V]
PA3-16	Identifying Pattern Rules	3.PR.1, 3.PR.2, [C, CN, PS, R, V]
PA3-17	Introduction to T-tables	3.PR.1, [C, CN, PS, R, V], 4.PR.1, 4.PR.2, 4.PR.3, 4.PR.4
PA3-18	T-tables	3.PR.1, [C, CN, PS, R, V], 4.PR.1, 4.PR.2, 4.PR.3, 4.PR.4
PA3-19	Problems and Puzzles	3.PR.1, [C, CN, PS, R, V], 4.PR.1, 4.PR.2, 4.PR.3, 4.PR.4
<b>Unit 2</b>	<b>Number Sense</b>	
NS3-1	Place Value – Ones, Tens, and Hundreds	2.N.4, 2.N.7, 3.N.2, 3.N.5, [C, CN, R, V]
NS3-2	Place Value	2.N.4., 2.N.7, 3.N.2, 3.N.5, [C, CN, R, V]
NS3-3	Writing and Reading Number Words	2.N.4, 2.N.7, 3.N.2, [C, CN, V]
NS3-4	Writing Numbers	2.N.4, 3.N.2, [C, CN, V]
NS3-5	Representation with Base Ten Materials	2.N.4, 2.N.7, 3.N.2, 3.N.5, [C, CN, R, V]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS3-6	Representation in Expanded Form	2.N.4, 2.N.7, 3.N.2, 3.N.5, [C, CN, R, V]
NS3-7	Representing Numbers – Review	2.N.4, 2.N.7, 3.N.2, 3.N.5, [C, CN, R, V]
NS3-8	Comparing Numbers	2.N.5, 3.N.3, [CN, R, V]
NS3-9	Comparing and Ordering Numbers	2.N.5, 3.N.3, [CN, R, V]
NS3-10	Differences of 10 and 100	3.N.3, [CN, R, V]
NS3-11	Comparing Numbers (Advanced)	3.N.3, [CN, R, V]
NS3-12	Counting by 2s	2.N.1, 3.N.1, [C, CN, ME]
NS3-13	Counting by 5s and 25s	2.N.1, 3.N.1, 3.N.4, [C, CN, ME, PS, R, V]
NS3-14	Counting by 2s, 3s and 5s	2.N.1, 3.N.1, [C, CN, ME]
NS3-15	Counting Backwards by 2s and 5s	2.N.1, 3.N.1, [C, CN, ME]
NS3-16	Counting by 10s	2.N.1, 3.N.1, [C, CN, ME]
NS3-17	Counting by 2s, 3s, 4s, 5s and 10s	2.N.1, 3.N.1, [C, CN, ME]
NS3-18	Counting by 100s	3.N.1, [C, CN, ME]
NS3-19	Regrouping	3.N.5, [C, CN, R, V]
NS3-20	Regrouping (Advanced)	3.N.5, 3.N.9, [C, CN, ME, PS, R, V]
NS3-21	Adding 2-Digit Numbers	3.N.9, [C, CN, ME, PS, R]
NS3-22	Adding with Regrouping (or Carrying)	3.N.9, [C, CN, ME, PS, R]
NS3-23	Adding with Money	3.N.9, [C, CN, ME, PS, R]
NS3-24	Adding 3-Digit Numbers	3.N.9, [C, CN, ME, PS, R], 4.N.3
NS3-25	Subtracting 2- and 3-Digit Numbers	3.N.9, [C, CN, ME, PS, R], 4.N.3
NS3-26	Subtracting by Regrouping	3.N.9, [C, CN, ME, PS, R], 4.N.3
NS3-27	Subtracting by Regrouping Hundreds	3.N.9, [C, CN, ME, PS, R], 4.N.3
NS3-28	Mental Math	2.N.10, 3.N.6, 3.N.9, [C, CN, ME, PS, R, V]
NS3-29	Parts and Totals	3.N.7, [C, ME, PS, R, V]
NS3-30	Parts and Totals (Advanced)	3.N.7, [C, ME, PS, R, V]
NS3-31	Sums and Differences	4.N.3
NS3-32	Larger Numbers	4.N.1, 4.N.3
NS3-33	Concepts in Number Sense	4.N.1, 4.N.3
NS3-34	Arrays	3.N.11, [C, CN, PS, R], 4.N.6
NS3-35	Adding Sequences of Numbers	3.N.11, [C, CN, PS, R], 4.N.6
NS3-36	Multiplication and Repeated Addition	3.N.11, [C, CN, PS, R], 4.N.6
NS3-37	Multiplying by Skip Counting	3.N.11, [C, CN, PS, R], 4.N.6



<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS3-38	Multiplying by Adding On	3.N.11, [C, CN, PS, R], 4.N.6
NS3-39	Doubles	3.N.11, [C, CN, PS, R], 4.N.6
NS3-40	Topics in Multiplication	3.N.11, [C, CN, PS, R], 4.N.4, 4.N.6
NS3-41	Concepts in Multiplication	3.N.11, [C, CN, PS, R], 4.N.4, 4.N.6
NS3-42	Pennies, Nickels, and Dimes	2.N.1, 3.N.1, [C, CN, ME]
NS3-43	Quarters	2.N.1, 3.N.1, [C, CN, ME]
NS3-44	Counting by Two or More Coin Values	2.N.1, 3.N.1, [C, CN, ME]
NS3-45	Counting by Different Denominations	2.N.1, 3.N.1, [C, CN, ME]
NS3-46	Least Number of Coins	2.N.1, 3.N.1, [C, CN, ME]
NS3-47	Dimes and Pennies	2.N.1, 3.N.1, [C, CN, ME]
NS3-48	Making Change Using Mental Math	3.N.1, 3.N.7, [C, CN, ME, PS, R, V]
NS3-49	Lists	4.N.3, 4.PR.3
NS3-50	Organized Lists	4.N.3, 4.PR.3
<b>Unit 3</b>	<b>Measurement</b>	
ME3-1	Estimating Lengths in Centimetres	3.SS.3, [C, CN, ME, PS, R, V]
ME3-2	Measuring in Centimetres	3.SS.3, [C, CN, ME, PS, R, V]
ME3-3	Rulers	3.SS.3, [C, CN, ME, PS, R, V]
ME3-4	Measuring Centimetres with Rulers	3.SS.3, [C, CN, ME, PS, R, V]
ME3-5	Drawing to Centimetre Measurements	3.SS.3, [C, CN, ME, PS, R, V]
ME3-6	Estimating in Centimetres	3.SS.3, [C, CN, ME, PS, R, V]
ME3-7	Estimating in Metres	3.SS.3, [C, CN, ME, PS, R, V]
ME3-8	Estimating in Metres (Advanced)	3.SS.3, [C, CN, ME, PS, R, V]
ME3-9	Kilometres	3.SS.3, [C, CN, ME, PS, R, V]
ME3-10	Ordering and Assigning Appropriate Units	3.SS.3, [C, CN, ME, PS, R, V]
ME3-11	Measuring Perimeter	3.SS.5, [C, ME, PS, R, V], 5.SS.1
ME3-12	Perimeter	3.SS.5, [C, ME, PS, R, V], 5.SS.1
ME3-13	Exploring Perimeter	3.SS.5, [C, ME, PS, R, V], 5.SS.1
ME3-14	Investigations	3.PR.1, 3.SS.5, [C, CN, ME, PS, R, V]
ME3-15	Measuring Mass	3.SS.4, [c, CN, ME, PS, R, V]
ME3-16	Measuring Capacity	5.SS.4
ME3-17	Measuring Temperature	N/A

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM3-1	Introduction to Classifying Data	2.SP.1, 3.SP.1, [C, CN, V]
PDM3-2	Venn Diagrams	3.SP.1, [C, CN, V]
PDM3-3	Introduction to Tallying Data	3.SP.1, [C, CN, V]
PDM3-4	Reading Data from a Tally Chart	3.SP.1, [C, CN, V]
PDM3-5	Introduction to Pictographs	2.SP.1, 2.SP.2, 3.SP.2, [PS, R, V]
PDM3-6	Pictograph Scale	3.SP.2, [PS, R, V]
PDM3-7	Displaying Data on a Pictograph	3.SP.2, [PS, R, V]
PDM3-8	Introduction to Bar Graphs	3.SP.2, [PS, R, V], 4.SP.2
PDM3-9	Bar Graphs	3.SP.2, [PS, R, V], 4.SP.2
PDM3-10	Bar Graphs (Advanced)	3.SP.2, [PS, R, V], 4.SP.2
PDM3-11	Collecting Data	2.SP.1, 3.SP.2, [PS, R, V]
PDM3-12	Practice with Surveys	2.SP.1, 3.SP.2, [PS, R, V]
PDM3-13	Blank Tally Chart and Bar Graph	3.SP.2, [PS, R, V]
PDM3-14	Collecting and Interpreting Data	2.SP.1, 3.SP.2, [PS, R, V]
<b>Unit 5</b>	<b>Geometry</b>	
G3-1	Sides and Vertices	2.SS.8, 3.SS.7, [C, CN, R, V]
G3-2	Introduction to Angles	3.SS.7, [C, CN, R, V], 6.SS.1
G3-3	Equilateral Shapes	3.SS.7, [C, CN, R, V]
G3-4	Quadrilaterals and Other Polygons	3.SS.7, [C, CN, R, V]
G3-5	Tangrams	3.SS.7, [C, CN, R, V]
G3-6	Congruency	3.SS.7, [C, CN, R, V]
G3-7	Congruency (Advanced)	3.SS.7, [C, CN, R, V]
G3-8	Recognizing and Drawing Congruent Shapes	3.SS.7, [C, CN, R, V]
G3-9	Exploring Congruency with Geoboards	3.SS.7, [C, CN, R, V]
G3-10	Exploring Congruency with Grids	3.SS.7, [C, CN, R, V]
G3-11	Symmetry	3.SS.7, [C, CN, R, V], 4.SS.6
G3-12	Lines of Symmetry	3.SS.7, [C, CN, R, V], 4.SS.6
G3-13	Completing Symmetric Shapes	4.SS.6
G3-14	Comparing Shapes	2.SS.8, 3.SS.7, [C, CN, R, V]
G3-15	Sorting Shapes by Property	2.SS.8, 3.SS.7, [C, CN, R, V]
G3-16	Finding Polygons	2.SS.8, 3.SS.7, [C, CN, R, V]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G3-17	Puzzles and Problems	3.SS.7, [C, CN, R, V]
<b>Grade 3 Part 2</b>		
<b>Unit 1</b>		
<b>Patterns &amp; Algebra</b>		
PA3-20	Patterns Involving Time	3.PR.1, 3.PR.2, [C, CN, PS, R, V]
PA3-21	Calendars	2.SS.1
PA3-22	Number Lines	3.PR.1, 3.PR.2, [C, CN, PS, R, V]
PA3-23	Mixed Patterns	2.PR.2, 3.PR.1, [C, CN, PS, R, V]
PA3-24	Describing and Creating Patterns	2.PR.2, 3.PR.1, 3.PR.2, [C, CN, PS, R, V]
PA3-25	2-Dimensional Patterns	3.PR.1, [C, CN, PS, R, V], 4.PR.3
PA3-26	Patterns in the Two Times Tables	3.PR.1, [C, CN, PS, R, V], 4.N.5
PA3-27	Patterns in the Five Times Tables	3.PR.1, [C, CN, PS, R, V], 4.N.5
PA3-28	Patterns in the Eight and Nine Times Tables	4.N.5
PA3-29	Patterns in Times Tables (Advanced)	4.PR.4
PA3-30	Patterns with Increasing Gaps	4.PR.1, 4.PR.3
PA3-31	Patterns with Larger Numbers	4.PR.1, 4.PR.3
PA3-32	Extending and Predicting Positions	4.PR.1, 4.PR.3
PA3-33	Equations	3.PR.3, [C, CN, PS, R, V], 4.PR.5, 4.PR.6
PA3-34	Adding and Subtracting Machines	3.PR.3, [C, CN, PS, R, V], 4.PR.5, 4.PR.6
PA3-35	Equations (Advanced)	3.PR.3, [C, CN, PS, R, V], 4.PR.5, 4.PR.6
PA3-36	Problems and Puzzles	3.PR.3, [C, CN, PS, R, V], 4.PR.5, 4.PR.6
<b>Unit 2</b>		
<b>Number Sense</b>		
NS3-51	Ordinal Numbers	2.N.3
NS3-52	Round to the Nearest Tens	3.N.6, [C, ME, PS, R, V]
NS3-53	Round to the Nearest Hundreds	3.N.6, 3.N.7, [C, ME, PS, R, V]
NS3-54	Rounding	3.N.6., 3.N.7, [C, ME, PS, R, V]
NS3-55	Estimating Sums and Differences	2.N.6, 3.N.6., 3.N.7, [C, ME, PS, R, V]
NS3-56	Estimating	2.N.6, 3.N.4, 3.N.6, 3.N.7, [C, ME, PS, R, V]
NS3-57	Mental Math and Estimation	2.N.10, 3.N.6, 3.N.7, 3.N.8, 3.N.9, 3.N.10, [C, CN, ME, PS, R, V]
NS3-58	Sharing – Knowing the Number of Sets	3.N.12, [C, CN, PS, R], 4.N.7
NS3-59	Sharing – Knowing How Many in Each Set	3.N.12, [C, CN, PS, R], 4.N.7

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS3-60	Sets	3.N.12, [C, CN, PS, R], 4.N.7
NS3-61	Two Ways of Sharing	3.N.12, [C, CN, PS, R], 4.N.7
NS3-62	Division	3.N.12, [C, CN, PS, R], 4.N.7
NS3-63	Dividing by Skip Counting	3.N.12, [C, CN, PS, R], 4.N.7
NS3-64	Division and Multiplication	3.N.12, [C, CN, PS, R], 4.N.7
NS3-65	Knowing When to Multiply or Divide	3.N.12, [C, CN, PS, R], 4.N.7
NS3-66	Remainders	3.N.12, [C, CN, PS, R], 4.N.7
NS3-67	Multiplication and Division	3.N.12, [C, CN, PS, R], 4.N.6, 4.N.7
NS3-68	Multiplication and Division (Review)	3.N.12, [C, CN, PS, R], 4.N.6, 4.N.7
NS3-69	Patterns Made with Repeated Addition	3.N.1, [C, CN, ME]
NS3-70	Counting by Dollars and Coins	2.N.1
NS3-71	Dollar and Cent Notation	4.N.9, 4.N.11
NS3-72	Counting and Changing Units	4.N.9, 4.N.11
NS3-73	Converting Between Dollar and Cent Notation	4.N.9, 4.N.11
NS3-74	Canadian Bills and Coins	4.N.9, 4.N.11
NS3-75	Adding Money	3.N.8, [C, ME, PS, R], 4.N.11
NS3-76	Subtracting Money	3.N.8, [C, ME, PS, R], 4.N.11
NS3-77	Estimating	3.N.8, [C, ME, PS, R], 4.N.11
NS3-78	Equal Parts	4.N.8
NS3-79	Models of Fractions	3.N.13, [C, CN, ME, R, V], 4.N.8
NS3-80	Fractions of a Region or a Length	3.N.13, [C, CN, ME, R, V], 4.N.8
NS3-81	Equal Parts of a Set	3.N.13, [C, CN, ME, R, V], 4.N.8
NS3-82	Parts and Wholes	3.N.13, [C, CN, ME, R, V], 4.N.8
NS3-83	Sharing and Fractions	3.N.13, [C, CN, ME, R, V], 4.N.8
NS3-84	Comparing Fractions	3.N.13, [C, CN, ME, R, V], 4.N.8
NS3-85	Fractions Greater than One	3.N.13, [C, CN, ME, R, V], 4.N.8
NS3-86	Puzzles and Problems	3.N.13, [C, CN, ME, R, V], 4.N.8
NS3-87	Decimal Tenths	4.N.9, 4.N.10, 4.N.11
NS3-88	Word Problems (Warm Up)	4.N.3, 4.N.6, 4.N.7
NS3-89	Word Problems	4.N.3, 4.N.6, 4.N.7
NS3-90	Planning a Party	4.N.3, 4.N.6, 4.N.7
NS3-91	Additional Problems	4.N.3, 4.N.6, 4.N.7

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS3-92	Charts	N/A
NS3-93	Arrangements and Combinations	N/A
NS3-94	Arrangements and Combinations (Advanced)	N/A
NS3-95	Guess and Check	N/A
NS3-96	Puzzles	N/A
<b>Unit 3</b>	<b>Measurement</b>	
ME3-18	Analogue Clock Faces	4.SS.1
ME3-19	Hands on an Analogue Clock	4.SS.1
ME3-20	Telling Time → The Hour Hand	4.SS.1
ME3-21	Telling Time → Five-Minute Intervals	4.SS.1
ME3-22	Telling Time → Putting It Together!	4.SS.1
ME3-23	Digital Clock Faces	4.SS.1
ME3-24	Timelines	3.SS.1, [CN, ME, R]
ME3-25	Intervals of Time	3.SS.2, [C, CN, PS, R, V]
ME3-26	Estimating Time Intervals	3.SS.1, 3.SS.2, [C, CN, ME, PS, R, V]
ME3-27	Cumulative Reviews	3.SS.1, 3.SS.2, [C, CN, ME, PS, R, V], 4.SS.1
ME3-28	Area	4.SS.3
ME3-29	Area in Square Centimetres	4.SS.3
ME3-30	Half Squares	4.SS.3
ME3-31	Puzzles and Problems	N/A
ME3-32	Investigating Units of Area	4.SS.3
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM3-15	Outcomes	5.SS.3, 5.SS.4
PDM3-16	Even Chances	5.SS.3, 5.SS.4
PDM3-17	Even, Likely and Unlikely	5.SS.3, 5.SS.4
PDM3-18	Describing Probability	5.SS.3, 5.SS.4
PDM3-19	Describing Probability (Advanced)	5.SS.3, 5.SS.4
PDM3-20	Fair Games	5.SS.3, 5.SS.4
PDM3-21	Experiments and Expectation	5.SS.3, 5.SS.4
PDM3-22	Cumulative Review	N/A
<b>Unit 5</b>	<b>Geometry</b>	
G3-18	Introduction to Coordinate Systems	5.SS.8

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G3-19	Coordinate Systems	5.SS.8
G3-20	Introduction to Slides (or Translations)	5.SS.7, 5.SS.8
G3-21	Slides	5.SS.7, 5.SS.8
G3-22	Slides (Advanced)	5.SS.7, 5.SS.8
G3-23	Slides on a Grid	5.SS.7, 5.SS.8
G3-24	Coordinate Systems and Maps	5.SS.7, 5.SS.8
G3-25	Mapping Exercise	5.SS.7, 5.SS.8
G3-26	Flips	5.SS.7, 5.SS.8
G3-27	Reflections	5.SS.7, 5.SS.8
G3-28	Flips and Slides	5.SS.7, 5.SS.8
G3-29	Turns	5.SS.7, 5.SS.8
G3-30	Rotations	5.SS.7, 5.SS.8
G3-31	Rotations (Advanced)	5.SS.7, 5.SS.8
G3-32	Flips, Slides and Turns	5.SS.7, 5.SS.8
G3-33	Building Pyramids	2.SS.7, 3.SS.6, [C, CN, PS, R, V], 4.SS.4
G3-34	Building Prisms	2.SS.7, 3.SS.6, [C, CN, PS, R, V], 4.SS.4
G3-35	Edges, Vertices and Faces	2.SS.7, 3.SS.6, [C, CN, PS, R, V], 4.SS.4
G3-36	Pyramid Nets	3.SS.6, [C, CN, PS, R, V], 4.SS.4
G3-37	Prism Nets	3.SS.6, [C, CN, PS, R, V], 4.SS.4
G3-38	Prisms and Pyramids	2.SS.7, 3.SS.6, [C, CN, PS, R, V], 4.SS.4
G3-39	Drawing Pyramids and Prisms	4.SS.5
G3-40	Properties of Pyramids and Prisms	2.SS.7, 3.SS.6, [C, CN, PS, R, V], 4.SS.4
G3-41	Sorting 3-D Shapes	2.SS.7, 3.SS.6, [C, CN, PS, R, V], 4.PR.4, 4.SS.4
G3-42	Classifying Shapes and Making Patterns	2.SS.7, 3.SS.7, [C, CN, R, V], 4.PR.4, 4.SS.4
G3-43	Geometry in the World	4.SS.4
G3-44	Problems and Puzzles	N/A

# JUMP Math–Manitoba Curriculum Correlations: Grade 4

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Grade 4 Part 1</b>		
<b>Unit 1</b>	<b>Patterns &amp; Algebra</b>	
PA4-1	Counting	2.N.1, 2.N.3, 4.PR.1, [C, CN, PS, V]
PA4-2	Preparation for Increasing Sequences	2.PR.1, 2.PR.2, 3.PR.1, 4.PR.1, [C, CN, PS, V]
PA4-3	Increasing Sequences	2.PR.1, 2.PR.2, 3.PR.1, 4.PR.1, [C, CN, PS, V]
PA4-4	Counting Backwards	2.PR.1, 2.PR.2, 3.PR.1, 4.PR.1, [C, CN, PS, V]
PA4-5	Decreasing Sequences	2.PR.1, 2.PR.2, 3.PR.1, 4.PR.1, [C, CN, PS, V]
PA4-6	Increasing and Decreasing Sequences	2.PR.1, 2.PR.2, 3.PR.1, 4.PR.1, [C, CN, PS, V]
PA4-7	Attributes	2.PR.1, 2.PR.2
PA4-8	Repeating Patterns	2.PR.1, 2.PR.2, 3.PR.1
PA4-9	Extending a Pattern Using a Rule	3.PR.1, 3.PR.2, 4.PR.1, [C, CN, PS, V]
PA4-10	Identifying Pattern Rules	3.PR.1, 3.PR.2, 4.PR.1, [C, CN, PS, V]
PA4-11	Introduction to T-tables	3.PR.1, 4.PR.1, 4.PR.2, 4.PR.3, [C, CN, PS, R, V]
PA4-12	T-tables	3.PR.1, 4.PR.1, 4.PR.3, [C, CN, PS, R, V]
PA4-13	Patterns Involving Time	3.PR.1, 4.PR.1, 4.PR.3, [C, CN, PS, R, V]
PA4-14	Problem Solving with Patterns	3.PR.1, 4.PR.1, 4.PR.2, [C, CN, PS, V]
<b>Unit 2</b>	<b>Number Sense</b>	
NS4-1	Place Value – Ones, Tens, Hundreds and Thousands	3.N.2, 3.N.5, 4.N.1, [C, CN, V]
NS4-2	Place Value	3.N.2, 3.N.5, 4.N.1, [C, CN, V]
NS4-3	Writing Numbers	3.N.2, 4.N.1, [C, CN, V]
NS4-4	Representation with Base Ten Materials	3.N.2, 3.N.5, 4.N.1, [C, CN, V]
NS4-5	Representation in Expanded Form	3.N.2, 3.N.5, 4.N.1, [C, CN, V]
NS4-6	Representing Numbers (Review)	3.N.2, 3.N.5, 4.N.1, [C, CN, V]
NS4-7	Comparing Numbers	3.N.3, 4.N.2, [C, CN]
NS4-8	Comparing and Ordering Numbers	3.N.3, 4.N.2, [C, CN]
NS4-9	Differences of 10, 100, and 1 000	3.N.3, 4.N.2, [C, CN]
NS4-10	Differences of 10, 100, and 1 000 (Advanced)	4.N.2, [C, CN]
NS4-11	Counting by 10s, 100s and 1 000s	3.N.1
NS4-12	Comparing Numbers (Advanced)	3.N.3, 4.N.2, [C, CN]
NS4-13	Regrouping	3.N.9, 4.N.3, [C, CN, ME, PS, R]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS4-14	Adding 2-Digit Numbers	3.N.9, 4.N.3, [C, CN, ME, PS, R]
NS4-15	Adding with Regrouping (or Carrying)	3.N.9, 4.N.3, [C, CN, ME, PS, R]
NS4-16	Adding with Money	3.N.9, 4.N.3, [C, CN, ME, PS, R]
NS4-17	Adding 3-Digit Numbers	3.N.9, 4.N.3, [C, CN, ME, PS, R]
NS4-18	Adding 4-Digit Numbers	3.N.9, 4.N.3, [C, CN, ME, PS, R]
NS4-19	Subtraction	3.N.9, 4.N.3, [C, CN, ME, PS, R]
NS4-20	Subtracting by Regrouping	3.N.9, 4.N.3, [C, CN, ME, PS, R]
NS4-21	Parts and Totals	3.N.7, 4.N.3, [C, CN, ME, PS, R]
NS4-22	Parts and Totals (Advanced)	3.N.7, 4.N.3, [C, CN, ME, PS, R]
NS4-23	Sums and Differences	4.N.3, [C, CN, ME, PS, R]
NS4-24	Larger Numbers (Advanced)	4.N.1, 4.N.3, [C, CN, ME, PS, R, V]
NS4-25	Concepts in Number Sense	4.N.1, 4.N.3, [C, CN, ME, PS, R, V]
NS4-26	Arrays	3.N.11
NS4-27	Multiplication and Addition	3.N.11, 4.N.5, [C, CN, ME, PS, R]
NS4-28	Multiplying by Skip Counting & Adding On	3.N.11, 4.N.5, [C, CN, ME, PS, R]
NS4-29	Multiplying by Adding On	3.N.11, 4.N.5, [C, CN, ME, PS, R]
NS4-30	Multiples of 10	4.N.6, [C, CN, ME, PS, R, V]
NS4-31	Advanced Arrays	4.N.6, [C, CN, ME, PS, R, V]
NS4-32	Mental Math	3.N.10, 4.N.6, [C, CN, ME, PS, R, V], 5.N.4
NS4-33	Mental Math: Doubling	3.N.11, 4.N.5, 4.N.6, [C, CN, ME, PS, R, V], 5.N.4
NS4-34	The Standard Method for Multiplication	4.N.6, [C, CN, ME, PS, R, V], 5.N.5
NS4-35	Regrouping (Multiplication)	4.N.6, [C, CN, ME, PS, R, V], 5.N.5
NS4-36	Multiplying a 3-Digit by a 1-Digit Number	4.N.6, [C, CN, ME, PS, R, V], 5.N.5
NS4-37	Topics in Multiplication	4.N.4, [C, CN, R]
NS4-38	Concepts in Multiplication	4.N.4, 4.N.6, [C, CN, ME, PS, R, V]
NS4-39	Rounding on a Number Line	4.N.3, [C, CN, ME, PS, R], 5.N.2
NS4-40	Rounding on a Number Line (Hundreds)	4.N.3, [C, CN, ME, PS, R], 5.N.2
NS4-41	Rounding on a Number Line (Thousands)	4.N.3, [C, CN, ME, PS, R], 5.N.2
NS4-42	Rounding	4.N.3, [C, CN, ME, PS, R], 5.N.2



<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS4-43	Rounding on a Grid	4.N.3, [C, CN, ME, PS, R], 5.N.2
NS4-44	Estimating Sums and Differences	3.N.7, 4.N.3, [C, CN, ME, PS, R]
NS4-45	Estimating	3.N.6, 3.N.7, 4.N.3, [C, CN, ME, PS, R]
NS4-46	More Estimating	4.N.3, [C, CN, ME, PS, R]
NS4-47	Counting Coins	3.N.1
NS4-48	Counting by Different Denominations	3.N.1
NS4-49	Least Number of Coins	3.N.1
NS4-50	Making Change Using Mental Math	3.N.1, 3.N.7, 4.N.3, 4.N.11, [C, CN, ME, PS, R, V]
NS4-51	Organized Lists	4.N.3, 4.PR.3, [C, CN, ME, PS, R, V]
<b>Unit 3</b>	<b>Measurement</b>	
ME4-1	Estimating Lengths in Centimetres	3.SS.3, 4.SS.3, [C, CN, ME, PS, R, V]
ME4-2	Measuring in Centimetres	3.SS.3, 4.SS.3, [C, CN, ME, PS, R, V]
ME4-3	Drawing and Measuring in Centimetres	3.SS.3, 4.SS.3, [C, CN, ME, PS, R, V]
ME4-4	Estimating in Millimetres	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.2
ME4-5	Millimetres and Centimetres	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.2
ME4-6	Comparing Centimetres and Millimetres	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.2
ME4-7	Centimetres and Millimetres (Advanced)	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.2
ME4-8	Problems and Puzzles	4.SS.3, [C, CN, ME, PS, R, V]
ME4-9	Metres	3.SS.3, 4.SS.3, [C, CN, ME, PS, R, V]
ME4-10	Metres (Advanced)	4.SS.3, [C, CN, ME, PS, R, V]
ME4-11	Kilometres	4.SS.3, [C, CN, ME, PS, R, V]
ME4-12	Kilometres and Metres	4.N.3, 4.SS.3, [C, CN, ME, PS, R, V]
ME4-13	Ordering and Assigning Appropriate Units	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.2
ME4-14	Ordering Units – Metres and Centimetres	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.2
ME4-15	More Ordering & Assigning Appropriate Units	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.2
ME4-16	Perimeter	3.SS.5, 5.SS.1
ME4-17	Exploring Perimeter	3.SS.5, 5.SS.1
ME4-18	Measuring Perimeter	3.SS.5, 5.SS.1
ME4-19	Telling Time (Review)	4.SS.1, [C, CN, V]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
ME4-20	Telling Time (Half and Quarter Hours)	4.SS.1, [C, CN, V]
ME4-21	Telling Time in Two Ways	4.SS.1, [C, CN, V]
ME4-22	Telling Time (One-Minute Intervals)	3.SS.1, 4.SS.1, [C, CN, V]
ME4-23	Elapsed Time	3.SS.1, 4.SS.1, [C, CN, V]
ME4-24	Elapsed Time (Advanced)	4.SS.1, [C, CN, V]
ME4-25	Times of Day	4.SS.1, [C, CN, V]
ME4-26	The 24-Hour Clock	4.SS.1, [C, CN, V]
ME4-27	Time Intervals	3.SS.1, 4.SS.1, [C, CN, V]
ME4-28	Longer Time Intervals	4.SS.1, [C, CN, V]
ME4-29	Topics in Time	3.SS.1, 3.SS.2, 4.SS.1, 4.SS.2, [C, CN, V]
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM4-1	Introduction to Classifying Data	3.SP.1
PDM4-2	Venn Diagrams	3.SP.1, 4.PR.4, [CN, PS, R, V]
PDM4-3	Venn Diagrams (Advanced)	4.PR.4, [CN, PS, R, V]
PDM4-4	Revisiting Pictographs	2.SP.1, 2.SP.2, 3.SP.2, 4.SP.1, 4.SP.2, [C, PS, R, T, V]
PDM4-5	Choosing a Pictograph Scale and Symbol	3.SP.2, 4.SP.1, 4.SP.2, [C, PS, R, T, V]
PDM4-6	Pictographs (Advanced)	4.SP.1, 4.SP.2, [C, PS, R, T, V]
PDM4-7	Introduction to Bar Graphs	3.SP.2, 4.SP.1, 4.SP.2, [C, PS, R, T, V]
PDM4-8	Choosing a Scale for a Bar Graph	3.SP.2, 4.SP.1, 4.SP.2, [C, PS, R, T, V]
PDM4-9	Double Bar Graphs	4.SP.1, 4.SP.2, [C, PS, R, T, V], 5.SP.2
PDM4-10	Surveys	3.SP.2, 4.SP.2, [C, PS, R, V]
PDM4-11	Designing Your Own Survey	3.SP.2, 4.SP.2, [C, PS, R, V]
PDM4-12	Reading and Manipulating Found Data	3.SP.2, 4.SP.2, [C, PS, R, V]
<b>Unit 5</b>	<b>Geometry</b>	
G4-1	Sides and Vertices of 2-D Figures	3.SS.7, [C, CN, R, V], preparation for 4.SS.4
G4-2	Introduction to Angles	3.SS.7, [C, CN, R, V], preparation for 4.SS.4
G4-3	Special Angles	preparation for 4.SS.4
G4-4	Measuring Angles	6.SS.1
G4-5	Parallel Lines	preparation for 4.SS.4
G4-6	Quadrilaterals	3.SS.7, preparation for 4.SS.4
G4-7	Properties of Shapes	3.SS.7, preparation for 4.SS.4

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G4-8	Special Quadrilaterals	5.SS.6
G4-9	Tangrams	3.SS.7
G4-10	Congruency	3.SS.7, 4.SS.5, [C, CN, V], preparation for 4.SS.4
G4-11	Congruency (Advanced)	4.SS.5, [C, CN, V], preparation for 4.SS.4
G4-12	Symmetry	3.SS.7, 4.SS.5, [C, CN, V]
G4-13	Symmetry and Paper Folding	3.SS.7, 4.SS.5, [C, CN, V]
G4-14	More Symmetry	4.SS.5, [C, CN, V]
G4-15	Triangles	6.SS.4
G4-16	Comparing Shapes	3.SS.7, 4.SS.5, [C, CN, V]
G4-17	Sorting and Classifying Shapes	3.SS.7, 4.PR.4, 4.SS.5, [C, CN, PS, R, V]
G4-18	Sorting and Classifying Shapes (Review)	3.SS.7, 4.PR.4, 4.SS.5, [C, CN, PS, R, V]
G4-19	Puzzles and Problems	N/A
<b>Grade 4 Part 2</b>		
<b>Unit 1</b>	<b>Patterns &amp; Algebra</b>	
PA4-15	Number Lines	3.PR.2
PA4-16	Number Lines (Advanced)	3.PR.2
PA4-17	Extending and Predicting Positions	4.PR.1, 4.PR.3, [C, CN, PS, R, V]
PA4-18	Describing and Creating Patterns	4.PR.3, [C, CN, PS, R, V], 5.PR.1
PA4-19	Describing and Creating Patterns (Advanced)	4.PR.3, [C, CN, PS, R, V], 5.PR.1
PA4-20	2-Dimensional Patterns	4.PR.3, [C, CN, PS, R, V], 5.PR.1
PA4-21	2-Dimensional Patterns (Advanced)	4.PR.4, [CN, PS, R, V], 5.PR.1
PA4-22	Calendars	2.SS.1, 4.SS.2, [CN, PS, R, V]
PA4-23	Patterns in the Two Times Tables	3.PR.1, 4.N.5, [C, CN, ME, PS, R]
PA4-24	Patterns in the Five Times Tables	3.PR.1, 4.N.5, [C, CN, ME, PS, R]
PA4-25	Patterns in the Eight Times Tables	4.N.5, [C, CN, ME, PS, R], 5.N.3, 5.PR.1
PA4-26	Patterns in the Times Tables (Advanced)	4.PR.4, [CN, PS, R, V], 5.N.3, 5.PR.1
PA4-27	Patterns with Increasing and Decreasing Steps	4.PR.1, 4.PR.3, [C, CN, PS, R, V]
PA4-28	Advanced Patterns	4.PR.1, 4.PR.3, [C, CN, PS, R, V]
PA4-29	Patterns with Larger Numbers	4.PR.1, 4.PR.3, [C, CN, PS, R, V]
PA4-30	Introduction to Algebra	4.PR.5, 4.PR.6, [C, CN, PS, R, V], 5.PR.2

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
PA4-31	Algebra	4.PR.5, 4.PR.6, [C, CN, PS, R, V], 5.PR.2
PA4-32	Algebra (Advanced)	4.PR.5, 4.PR.6, [C, CN, PS, R, V], 5.PR.2
PA4-33	Problems and Puzzles	4.PR.3, [C, CN, PS, R, V]
<b>Unit 2</b>	<b>Number Sense</b>	
NS4-52	Sets	3.N.12, 4.N.7, 4.PR.3, [C, CN, PS, R, V], 5.N.6
NS4-53	Sharing – Knowing the Number of Sets	3.N.12, 4.N.7
NS4-54	Sharing – Knowing the Number in Each Set	3.N.12, 4.N.7
NS4-55	Two Ways of Sharing	3.N.12, 4.N.7, 5.N.6
NS4-56	Division and Addition	3.N.12, 4.N.7
NS4-57	Dividing by Skip Counting	3.N.12, 4.N.7, 5.N.6
NS4-58	The Two Meanings of Division	4.N.7, 5.N.6
NS4-59	Division and Multiplication	4.N.7, 5.N.6
NS4-60	Knowing When to Multiply or Divide (Introduction)	4.N.7, 5.N.6
NS4-61	Knowing When to Multiply or Divide	4.N.7, 5.N.6
NS4-62	Remainders	4.N.7, 5.N.6
NS4-63	Finding Remainders on Number Lines	4.N.7, 5.N.6
NS4-64	Mental Math – Division	4.N.7, 5.N.6
NS4-65	Long Division – 2-Digit by 1-Digit	4.N.7, 5.N.6
NS4-66	Further Division	4.N.7, 5.N.6
NS4-67	Unit Rates	7.SS.1
NS4-68	Concepts in Multiplication and Division	4.N.7, 5.N.6
NS4-69	Systematic Search	N/A
NS4-70	Naming of Fractions	3.N.13, 4.N.8, [C, CN, PS, R, V]
NS4-71	Equal Parts and Models of Fractions	3.N.13, 4.N.8, [C, CN, PS, R, V]
NS4-72	Equal Parts of a Set	3.N.13, 4.N.8, [C, CN, PS, R, V]
NS4-73	Parts and Wholes	3.N.13, 4.N.8, [C, CN, PS, R, V]
NS4-74	Ordering and Comparing Fractions	3.N.13, 4.N.8, [C, CN, PS, R, V], 5.N.7
NS4-75	More Ordering and Comparing Fractions	4.N.8, [C, CN, PS, R, V], 5.N.7
NS4-76	Parts and Wholes (Advanced)	4.N.8, [C, CN, PS, R, V], 5.N.7

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS4-77	Mixed Fractions	5.N.7
NS4-78	Improper Fractions	5.N.7
NS4-79	Mixed and Improper Fractions	5.N.7
NS4-80	Investigating Mixed & Improper Fractions	5.N.7
NS4-81	Mixed Fractions (Advanced)	5.N.7
NS4-82	Mixed and Improper Fractions (Advanced)	5.N.7
NS4-83	Equivalent Fractions	4.N.8, [C, CN, PS, R, V], 5.N.7
NS4-84	More Equivalent Fractions	4.N.8, [C, CN, PS, R, V], 5.N.7
NS4-85	Further Equivalent Fractions	4.N.8, [C, CN, PS, R, V], 5.N.7
NS4-86	Sharing and Fractions	4.N.8, [C, CN, PS, R, V], 5.N.7
NS4-87	More Sharing and Fractions	4.N.8, [C, CN, PS, R, V], 5.N.7
NS4-88	Sharing and Fractions (Advanced)	4.N.8, [C, CN, PS, R, V], 5.N.7
NS4-89	More Mixed and Improper Fractions	5.N.7
NS4-90	Adding and Subtracting Fractions (Introduction)	7.N.5
NS4-91	Fractions Review	4.N.8, [C, CN, PS, R, V], 5.N.7, 7.N.5
NS4-92	Dollar and Cent Notation	4.N.9, 4.N.11, [C, CN, ME, PS, R, V]
NS4-93	Converting Between Dollar and Cent Notation	4.N.9, 4.N.11, [C, CN, ME, PS, R, V]
NS4-94	More Dollar and Cent Notation	4.N.9, 4.N.11, [C, CN, ME, PS, R, V]
NS4-95	Canadian Bills and Coins	4.N.9, 4.N.11, [C, CN, ME, PS, R, V]
NS4-96	Adding Money	3.N.8, 4.N.11, [C, ME, PS, R, V], 5.N.11
NS4-97	Subtracting Money	3.N.8, 4.N.11, [C, ME, PS, R, V], 5.N.11
NS4-98	Estimating	3.N.8, 4.N.11, [C, ME, PS, R, V], 5.N.11
NS4-99	Decimal Tenths	4.N.9, 4.N.10, 4.N.11, [C, CN, ME, PS, R, V], 5.N.8
NS4-100	Place Values (Decimals)	4.N.9, 4.N.10, [C, CN, R, V], 5.N.8
NS4-101	Decimal Hundredths	4.N.9, 4.N.10, [C, CN, R, V], 5.N.8, 5.N.9
NS4-102	Tenths and Hundredths	4.N.9, 4.N.10, [C, CN, R, V], 5.N.8, 5.N.9
NS4-103	Changing Tenths to Hundredths	4.N.9, 4.N.10, [C, CN, R, V], 5.N.8, 5.N.9
NS4-104	Decimals and Money	4.N.9, 4.N.10, 4.N.11, [C, CN, ME, PS, R, V], 5.N.8., 5.N.9
NS4-105	Changing Notation: Fractions and Decimals	4.N.9, 4.N.10, [C, CN, R, V], 5.N.8, 5.N.9

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS4-106	Decimals and Fractions Greater Than One	5.N.8, 5.N.9
NS4-107	Decimals and Fractions on Number Lines	4.N.10, [CN, R, V], 5.N.7, 5.N.8, 5.N.10
NS4-108	Comparing Fractions and Decimals	4.N.8, [C, CN, PS, R, V], 5.N.7, 5.N.10
NS4-109	Ordering Fractions and Decimals	4.N.10, [CN, R, V], 5.N.7, 5.N.9, 5.N.10
NS4-110	Adding and Subtracting Tenths	4.N.11, [C, ME, PS, R, V], 5.N.11
NS4-111	Adding Hundredths	4.N.11, [C, ME, PS, R, V], 5.N.11
NS4-112	Subtracting Hundredths	4.N.11, [C, ME, PS, R, V], 5.N.11
NS4-113	Adding and Subtracting Decimals (Review)	4.N.11, [C, ME, PS, R, V], 5.N.11
NS4-114	Differences of 0.1 and 0.01	4.N.11, [C, ME, PS, R, V], 5.N.8, 5.N.10
NS4-115	Order and Place Value (Advanced)	5.N.8
NS4-116	Concepts in Decimals	4.N.9, [C, CN, R, V]
NS4-117	Dividing by 10 and 100	4.N.7 [C, CN]
NS4-118	Changing Units	5.SS.2
NS4-119	Exploring Numbers	4.N.6, [C, CN, ME, PS, R, V]
NS4-120	Word Problems	4.N.3, 4.N.6, 4.N.7, 4.N.11, [C, CN, ME, PS, R, V], 5.N.5
<b>Unit 3</b>	<b>Measurement</b>	
ME4-30	Area in Square Centimetres	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.1
ME4-31	Area of Rectangles	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.1
ME4-32	Exploring Area	4.SS.3, [C, CN, ME, PS, R, V], 5.SS.1
ME4-33	Area with Half Squares	4.SS.3, [C, CN, ME, PS, R, V]
ME4-34	Finding and Estimating Area	4.SS.3, [C, CN, ME, PS, R, V]
ME4-35	Comparing Area and Perimeter	5.SS.1
ME4-36	Area and Perimeter	5.SS.1
ME4-37	Problems and Puzzles	5.SS.1
ME4-38	Volume	5.SS.3
ME4-39	Volume of Rectangular Prisms	5.SS.3
ME4-40	Mass	3.SS.4
ME4-41	Changing Units of Mass	3.SS.4
ME4-42	Problems Involving Mass	3.SS.4
ME4-43	Capacity	5.SS.4
ME4-44	Mass and Capacity	5.SS.2

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
ME4-45	Temperature	N/A
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM4-13	Range and Median	7.SP.1
PDM4-14	The Mean	7.SP.1
PDM4-15	Stem and Leaf Plots	7.SP.1
PDM4-16	Outcomes	5.SS.3, 5.SS.4
PDM4-17	Even Chances	5.SS.3, 5.SS.4
PDM4-18	Even, Likely and Unlikely	5.SS.3, 5.SS.4
PDM4-19	Equal Likelihood	5.SS.3, 5.SS.4
PDM4-20	Describing Probability	5.SS.3, 5.SS.4
PDM4-21	Fair Games	5.SS.3, 5.SS.4
PDM4-22	Expectation	5.SS.3, 5.SS.4
PDM4-23	Problems and Puzzles	N/A
<b>Unit 5</b>	<b>Geometry</b>	
G4-20	Introduction to Coordinate Systems	5.SS.8
G4-21	Introduction to Slides	5.SS.7, 5.SS.8
G4-22	Slides	5.SS.7, 5.SS.8
G4-23	Slides (Advanced)	5.SS.7, 5.SS.8
G4-24	Grids and Maps	5.SS.7, 5.SS.8
G4-25	Games and Activities with Maps and Grids	5.SS.7, 5.SS.8
G4-26	Reflections	5.SS.7, 5.SS.8
G4-27	Reflections (Advanced)	5.SS.7, 5.SS.8
G4-28	Rotations	5.SS.7, 5.SS.8
G4-29	Rotations (Advanced)	5.SS.7, 5.SS.8
G4-30	Building Pyramids	3.SS.6, 4.SS.4, [C, CN, R, V], 5.SS.5
G4-31	Building Prisms	3.SS.6, 4.SS.4, [C, CN, R, V]
G4-32	Edges, Vertices, and Faces	3.SS.6, 4.SS.4, [C, CN, R, V]
G4-33	Prisms and Pyramids	3.SS.6, 4.SS.4, [C, CN, R, V], 5.SS.5
G4-34	Prism and Pyramid Bases	4.SS.4, [C, CN, R, V]
G4-35	Properties of Pyramids and Prisms	3.SS.6, 4.SS.4, [C, CN, R, V]
G4-36	Nets	3.SS.6, 4.SS.4, 4.SS.5, [C, CN, R, V]
G4-37	Sorting 3-D Shapes	3.SS.6, 4.PR.4, 4.SS.4, [C, CN, PS, R, V], 5.SS.5

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G4-38	Isoparametric Drawings	N/A
G4-39	Isometric Drawings	N/A
G4-40	Geometry in the World	4.SS.4, 4.SS.5, [C, CN, R, V]
G4-41	Problems and Puzzles	4.SS.4, [C, CN, R, V]



# JUMP Math–Manitoba Curriculum Correlations: Grade 5

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Grade 5 Part 1</b>		
<b>Unit 1</b>	<b>Patterns &amp; Algebra</b>	
PA5-1	Counting	4.PR.1, preparation for 5.PR.1
PA5-2	Increasing Sequences	4.PR.1, preparation for 5.PR.1
PA5-3	Counting Backwards	4.PR.1, preparation for 5.PR.1
PA5-4	Decreasing Sequences	4.PR.1, preparation for 5.PR.1
PA5-5	Increasing and Decreasing Sequences	4.PR.1, preparation for 5.PR.1
PA5-6	Extending a Pattern Using a Rule	4.PR.1, 5.PR.1, [C, CN, PS, R, V]
PA5-7	Identifying Pattern Rules	4.PR.1, 5.PR.1, [C, CN, PS, R, V]
PA5-8	Introduction to T-tables	4.PR.1, 4.PR.2, 4.PR.3, 5.PR.1, [C, CN, PS, R, V]
PA5-9	T-tables	4.PR.1, 4.PR.3, 5.PR.1, [C, CN, PS, R, V]
PA5-10	Problems Involving Time	4.PR.1, 4.PR.3, 5.PR.1, [C, CN, PS, R, V]
PA5-11	T-tables (Advanced)	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-12	Repeating Patterns	5.PR.1, [C, CN, PS, R, V]
PA5-13	Extending Patterns & Predicting Positions	5.PR.1, [C, CN, PS, R, V]
PA5-14	Number Lines	3.PR.2
PA5-15	Number Lines (Advanced)	3.PR.2
PA5-16	Lowest Common Multiples	6.N.3
PA5-17	Describing & Creating Patterns	4.PR.3, 5.PR.1, [C, CN, PS, R, V]
PA5-18	2-Dimensional Patterns	4.PR.3, 5.PR.1, [C, CN, PS, R, V]
PA5-19	Number Pyramids	5.PR.1, [C, CN, PS, R, V]
PA5-20	Patterns in Times Tables	4.PR.4, 5.N.3, 5.PR.1, [C, CN, ME, PS, R, V]
PA5-21	Patterns in the Eight Times Table	4.N.5, 5.N.3, 5.PR.1, [C, CN, ME, PS, R, V]
PA5-22	Times Tables (Advanced)	5.N.3, 5.PR.1, [C, CN, ME, PS, R, V]
PA5-23	Circle Charts	5.PR.1, [C, CN, PS, R, V]
<b>Unit 2</b>	<b>Number Sense</b>	
NS5-1	Place Value	4.N.1, 5.N.1
NS5-2	Writing Numbers	4.N.1, 5.N.1
NS5-3	Representation with Base Ten Materials	4.N.1, 5.N.1
NS5-4	Representation in Expanded Form	4.N.1, 5.N.1
NS5-5	Comparing and Ordering Numbers	4.N.2, 5.N.1

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS5-6	Differences of 10, 100, 1 000 or 10 000	4.N.2, 5.N.1, 5.N.3, [C, CN, ME, R, V]
NS5-7	Comparing Numbers (Advanced)	4.N.2, 5.N.1
NS5-8	Regrouping	4.N.3, 5.N.1
NS5-9	Adding with Regrouping	4.N.3
NS5-10	Adding 3-Digit Numbers	4.N.3
NS5-11	Adding 4- and 5-Digit Numbers	4.N.3
NS5-12	Subtraction	4.N.3
NS5-13	Parts and Totals	4.N.3
NS5-14	Parts and Totals (Advanced)	4.N.3
NS5-15	Addition and Subtraction	4.N.3
NS5-16	Larger Numbers	4.N.3, 5.N.1
NS5-17	Concepts in Number Sense	4.N.3, 5.N.1
NS5-18	Arrays	3.N.11, 4.N.6
NS5-19	Multiplying by Skip Counting and Adding On	4.N.5, 5.N.3, [C, CN, ME, R, V]
NS5-20	Multiplying by Adding On	4.N.5, 5.N.3, [C, CN, ME, R, V]
NS5-21	Multiples of 10	4.N.5, 5.N.4, [C, ME, R], preparation for 5.N.5
NS5-22	Advanced Arrays	4.N.5, 5.N.4, [C, ME, R], preparation for 5.N.5
NS5-23	Mental Math	4.N.6, 5.N.4, [C, ME, R], preparation for 5.N.5
NS5-24	The Standard Method for Multiplication	4.N.6, preparation for 5.N.5
NS5-25	Regrouping	4.N.6, 5.N.5, [C, CN, PS, V]
NS5-26	Multiplying – 3-Digit by 1-Digit	4.N.6, 5.N.5
NS5-27	More Mental Math	5.N.4, 5.N.5, [C, CN, ME, PS, R, V]
NS5-28	Multiplying 2-Digit Numbers by Multiples of Ten	5.N.4, 5.N.5, [C, CN, ME, PS, R, V]
NS5-29	Multiplying 2 Digits by 2 Digits	5.N.5, [C, CN, PS, V]
NS5-30	Mental Math: Rearranging Products	5.N.3, 5.N.4, [C, CN, ME, R, V]
NS5-31	Topics in Multiplication (Advanced)	5.N.1
NS5-32	Concepts in Multiplication	5.N.5, [C, CN, PS, V]
NS5-33	Sets	4.N.7, 4.PR.3, 5.N.6, [C, CN, PS]
NS5-34	Two Ways of Sharing	4.N.7, 5.N.6, [C, CN, PS]
NS5-35	Dividing by Skip Counting	4.N.7, 5.N.3, 5.N.6, [C, CN, ME, PS, R, V]
NS5-36	Division and Multiplication	4.N.7, 5.N.6, [C, CN, PS]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS5-37	Knowing When to Multiply or Divide	4.N.7, 5.N.6, [C, CN, PS]
NS5-38	Remainders	4.N.7, 5.N.6, [C, CN, PS]
NS5-39	Dividing with Remainders	4.N.7, 5.N.6, [C, CN, PS]
NS5-40	Long Division – 2-Digit by 1-Digit	4.N.7, 5.N.6, [C, CN, PS]
NS5-41	Long Division – 3- and 4-Digit by 1-Digit	5.N.6, [C, CN, PS]
NS5-42	Topics in Division (Advanced)	5.N.6, [C, CN, PS]
NS5-43	Concepts in Multiplication and Division	4.N.7, 5.N.6, [C, CN, PS]
NS5-44	Rounding on a Number Line	4.N.3, 5.N.2, [C, CN, ME, PS, R, V]
NS5-45	Rounding	4.N.3, 5.N.2, [C, CN, ME, PS, R, V]
NS5-46	Rounding to Any Decimal Place	5.N.2, [C, CN, ME, PS, R, V]
NS5-47	Estimating Sums and Differences	4.N.3, 5.N.2, [C, CN, ME, PS, R, V]
NS5-48	Estimation	4.N.3, 5.N.2, [C, CN, ME, PS, R, V]
NS5-49	Multiplying by 10, 100, 1 000 and 10 000	5.N.2, 5.N.4, [C, CN, ME, PS, R, V]
NS5-50	Other Methods of Estimation	5.N.2, [C, CN, ME, PS, R, V]
NS5-51	Other Methods of Estimation (Advanced)	5.N.2, [C, CN, ME, PS, R, V]
NS5-52	Counting Coins	N/A
NS5-53	Counting by Different Denominations	N/A
NS5-54	Least Number of Coins	N/A
NS5-55	Dollar and Cent Notation	4.N.9, 4.N.11
NS5-56	Least Number of Coins and Bills	N/A
NS5-57	Making Change Using Mental Math	4.N.3, 4.N.11
NS5-58	Adding Money	4.N.11, 5.N.11, [C, CN, PS, R, V]
NS5-59	Subtracting Money	4.N.11, 5.N.11, [C, CN, PS, R, V]
NS5-60	Estimating with Money	4.N.11, 5.N.2, 5.N.11, [C, CN, ME, PS, R, V]
<b>Unit 3</b>	<b>Measurement</b>	
ME5-1	Telling Time → Review	4.SS.1
ME5-2	Telling Time → The Second Hand	4.SS.1
ME5-3	Telling Time in Different Ways	4.SS.1
ME5-4	Elapsed Time	4.SS.1
ME5-5	The 24-Hour Clock	4.SS.1

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
ME5-6	Topics in Time	4.SS.1
ME5-7	Temperature	N/A
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM5-1	Classifying Data	preparation for 5.SP.1, 5.SP.2
PDM5-2	Venn Diagrams (Advanced)	4.PR.4
PDM5-3	Choosing a Scale for a Bar Graph	4.SP.1, 4.SP.2, 5.SP.2
PDM5-4	Double Bar Graphs	4.SP.1, 4.SP.2, 5.SP.2
PDM5-5	Broken Line Graphs – An Introduction	6.SP.1
PDM5-6	Discrete and Continuous Data	N/A
PDM5-7	Continuous Line Graphs	6.PR.2, 6.SP.1
PDM5-8	More Discrete and Continuous Data	N/A
PDM5-9	Primary and Secondary Data	5.SP.1, 6.SP.2
PDM5-10	Samples and Surveys	5.SP.1, 6.SP.2
PDM5-11	Designing and Analyzing a Survey	5.SP.1, 5.SP.2, 6.SP.2, 6.SP.3
PDM5-12	Designing and Analyzing an Experiment	5.SP.1, 6.SP.2, 6.SP.3
<b>Unit 5</b>	<b>Geometry</b>	
G5-1	Sides and Vertices of 2-D Figures	preparation for 5.SS.6
G5-2	Introduction to Angles	5.SS.5, [C, CN, R, T, V], preparation for 5.SS.6, 6.SS.1
G5-3	Measuring Angles	preparation for 5.SS.5, 6.SS.1
G5-4	Measuring and Constructing Angles	preparation for 5.SS.5, 6.SS.1
G5-5	Angles in Triangles and Polygons	preparation for 5.SS.5, 6.SS.1
G5-6	Classifying Triangles	4.PR.4, 4.SS.5, 5.SS.5, [C, CN, R, T, V]
G5-7	Constructing Triangles and Polygons	5.SS.5, [C, CN, R, T, V], 6.SS.2, 6.SS.4
G5-8	Parallel Lines	5.SS.5, [C, CN, R, T, V], preparation for 5.SS.6
G5-9	Properties of Shapes	5.SS.5, 5.SS.6, [C, CN, R, T, V], 6.SS.5
G5-10	Special Quadrilaterals	5.SS.5, 5.SS.6, [C, CN, R, T, V]
G5-11	Exploring Congruency	4.SS.5, preparation for 5.SS.8
G5-12	Exploring Congruency (Advanced)	6.SS.5
G5-13	Symmetry	preparation for 5.SS.6, 5.SS.8, 6.SS.6
G5-14	Comparing Shapes	4.SS.5, 5.SS.5, 5.SS.6, [C, CN, R, T, V], 6.SS.5
G5-15	Sorting and Classifying Shapes	4.SS.5, 5.SS.5, 5.SS.6, [C, CN, R, T, V], 6.SS.5

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G5-16	Sorting and Classifying Shapes (Advanced)	5.SS.5, 5.SS.6, [C, CN, R, T, V], 6.SS.5
G5-17	Puzzles and Problems	5.SS.5, 5.SS.6, [C, CN, R, T, V]
<b>Grade 5 Part 2</b>		
<b>Unit 1</b>	<b>Patterns &amp; Algebra</b>	
PA5-24	Finding Rules for T-tables – Part I	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-25	Finding Rules for T-tables – Part II	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-26	Finding Rules for Patterns – Part I	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-27	Direct Variation	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-28	Finding Rules for Patterns – Part II	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-29	Predicting the Gap Between Terms in a Pattern	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-30	Finding Rules for T-tables – Part III	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-31	Patterns Created Using One Operation	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-32	Patterns with Increasing & Decreasing Steps	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-33	Creating and Extending Patterns (Advanced)	5.PR.1, [C, CN, PS, R, V], 6.PR.1
PA5-34	Patterns with Larger Numbers	6.PR.1, 6.N.2
PA5-35	Introduction to Algebra	4.PR.5, 4.PR.6, 5.PR.2, [C, CN, PS, R]
PA5-36	Algebra	4.PR.5, 4.PR.6, 5.PR.2, [C, CN, PS, R]
PA5-37	Variables	5.PR.2, [C, CN, PS, R], 6.PR.3
PA5-38	Equations	5.PR.2, [C, CN, PS, R], 6.PR.3, 6.PR.4
PA5-39	Problems and Puzzles	5.PR.1, 5.PR.2, [C, CN, PS, R, V]
<b>Unit 2</b>	<b>Number Sense</b>	
NS5-61	Equal Parts and Models of Fractions	4.N.8, preparation for 5.N.7
NS5-62	Equal Parts of a Set	4.N.8, preparation for 5.N.7
NS5-63	Parts and Wholes	4.N.8, preparation for 5.N.7
NS5-64	Ordering and Comparing Fractions	4.N.8, 5.N.7, [C, CN, PS, R, V]
NS5-65	Mixed Fractions	preparation for 5.N.7
NS5-66	Improper Fractions	preparation for 5.N.7
NS5-67	Mixed and Improper Fractions	5.N.7, [C, CN, PS, R, V], 6.N.4
NS5-68	Mixed Fractions (Advanced)	5.N.7, [C, CN, PS, R, V], 6.N.4

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS5-69	Mixed and Improper Fractions (Advanced)	5.N.7, [C, CN, PS, R, V], 6.N.4
NS5-70	Investigating Mixed and Improper Fractions	5.N.7, [C, CN, PS, R, V], 6.N.4
NS5-71	Equivalent Fractions	4.N.8, 5.N.7, [C, CN, PS, R, V]
NS5-72	Models of Equivalent Fractions	4.N.8, 5.N.7, [C, CN, PS, R, V]
NS5-73	Fractions of Whole Numbers	7.N.3, 8.N.6
NS5-74	Fractions of Whole Numbers (Advanced)	7.N.3, 8.N.6
NS5-75	Comparing and Ordering Fractions	4.N.8, 5.N.7, [C, CN, PS, R, V]
NS5-76	Lowest Common Denominator	5.N.7, [C, CN, PS, R, V]
NS5-77	Adding and Subtracting Fractions	7.N.5
NS5-78	Fractions Review	5.N.7, [C, CN, PS, R, V]
NS5-79	Place Value Decimals	5.N.8, [C, CN, R, V], 6.N.1
NS5-80	Decimal Hundredths	5.N.8, 5.N.9, [C, CN, R, V], 6.N.1
NS5-81	Tenths and Hundredths	5.N.8, 5.N.9, [C, CN, R, V], 6.N.1
NS5-82	Changing Tenths to Hundredths	5.N.8, 5.N.9, [C, CN, R, V], 6.N.1
NS5-83	Decimals and Money	5.N.8, 5.N.9, [C, CN, R, V], 6.N.1
NS5-84	Changing Notation: Fractions and Decimals	5.N.8, 5.N.9, [C, CN, R, V], 6.N.1
NS5-85	Decimals and Fractions Greater Than One	5.N.8, 5.N.9, [C, CN, R, V], 6.N.1
NS5-86	Decimals and Fractions on Number Lines	5.N.7, 5.N.8, 5.N.10, [C, CN, PS, R, V], 6.N.1
NS5-87	Comparing and Ordering Fractions and Decimals	4.N.8, 4.N.10, 5.N.7, 5.N.10, [C, CN, PS, R, V]
NS5-88	Ordering Fractions and Decimals	5.N.7, 5.N.9, 5.N.10, [C, CN, PS, R, V], 6.N.4
NS5-89	Adding and Subtracting Tenths	4.N.11, 5.N.11, [C, CN, PS, R, V]
NS5-90	Adding Hundredths	4.N.11, 5.N.11, [C, CN, PS, R, V]
NS5-91	Subtracting Hundredths	4.N.11, 5.N.11, [C, CN, PS, R, V]
NS5-92	Adding and Subtracting Decimals (Review)	4.N.11, 5.N.11, [C, CN, PS, R, V]
NS5-93	Multiplying Decimals by 10	6.N.8
NS5-94	Multiplying Decimals by 100	6.N.8
NS5-95	Multiplying Decimals by Whole Numbers	6.N.8
NS5-96	Dividing Decimals by 10	6.N.8

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS5-97	Dividing Decimals by Whole Numbers	6.N.8
NS5-98	Thousandths	5.N.8, 5.N.9, 5.N.10, 5.N.11, [C, CN, PS, R, V], 6.N.1
NS5-99	Differences of 0.1 and 0.01	5.N.8, 5.N.10, [C, CN, R, V], 6.N.1
NS5-100	Decimals (Review)	5.N.8, 5.N.9, 5.N.10, 5.N.11, [C, CN, PS, R, V]
NS5-101	Word Problems with Decimals	5.N.8, 5.N.10, 5.N.11, [C, CN, PS, R, V], 6.N.8
NS5-102	Unit Rates	7.SS.1
NS5-103	Scale Diagrams	7.SS.1
NS5-104	Proportions	6.N.5, 8.N.4, 8.N.5
NS5-105	Numbers in Careers and the Media	N/A
NS5-106	Word Problems	5.N.5, [C, CN, PS, V]
NS5-107	Organized Lists	4.N.3, 4.PR.3, 6.N.3
NS5-108	Arrangements and Combinations (Advanced)	N/A
<b>Unit 3</b>	<b>Measurement</b>	
ME5-8	Centimetres	4.SS.3, preparation for 5.SS.2
ME5-9	Millimetres and Centimetres	4.SS.3, 5.SS.2, [C, CN, ME, PS, R, V]
ME5-10	Decimetres	N/A
ME5-11	Metres and Kilometres	4.N.3, 4.SS.3, 5.SS.2, [C, CN, ME, PS, R, V]
ME5-12	Speed	N/A
ME5-13	Changing Units	5.SS.2, [C, CN, ME, PS, R, V]
ME5-14	Problems Solving with Kilometres	5.N.2, [C, CN, ME, PS, R, V]
ME5-15	Changing Units (Advanced)	5.SS.2, [C, CN, ME, PS, R, V]
ME5-16	Ordering & Assigning Appropriate Units	4.SS.3, 5.SS.2, [C, CN, ME, PS, R, V]
ME5-17	Mathematics and Architecture	5.SS.2, [C, CN, ME, PS, R, V]
ME5-18	Problem Solving with Measurement	5.N.2, [C, CN, ME, PS, R, V]
ME5-19	Perimeter	5.SS.1, [C, CN, PS, R, V]
ME5-20	Problem Solving with Perimeter	5.SS.1, [C, CN, PS, R, V]
ME5-21	Exploring Perimeters	5.SS.1, [C, CN, PS, R, V]
ME5-22	Circles and Irregular Polygons	5.SS.1, [C, CN, PS, R, V]
ME5-23	Area in Square Centimetres	5.SS.1, [C, CN, PS, R, V], 6.PR.3
ME5-24	Area of Rectangles	5.SS.1, [C, CN, PS, R, V], 6.PR.3, 6.SS.3
ME5-25	Exploring Area	5.SS.1, [C, CN, PS, R, V], 6.SS.3

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
ME5-26	Area of Polygons	5.SS.1, [C, CN, PS, R, V], 6.SS.3
ME5-27	Area of Irregular Shapes and Polygons	5.SS.1, [C, CN, PS, R, V], 6.SS.3
ME5-28	More Area and Perimeter	5.SS.1, [C, CN, PS, R, V], 6.SS.3
ME5-29	Comparing Area and Perimeter	5.SS.1, [C, CN, PS, R, V], 6.SS.3
ME5-30	Area and Perimeter	5.SS.1, [C, CN, PS, R, V], 6.SS.3
ME5-31	Problems and Puzzles	5.SS.1, [C, CN, PS, R, V]
ME5-32	More Area and Perimeter	5.SS.1, [C, CN, PS, R, V], 6.SS.3
ME5-33	Volume	5.SS.3, [C, CN, ME, PS, R, V], 6.SS.3
ME5-34	Volume of Rectangular Prisms	5.SS.3, [C, CN, ME, PS, R, V], 6.SS.3
ME5-35	Mass	3.SS.4
ME5-36	Capacity	5.SS.4, [C, CN, ME, PS, R, V]
ME5-37	Volume and Capacity	5.SS.3, 5.SS.4, [C, CN, ME, PS, R, V], 6.SS.3
ME5-38	Changing Units of Measurement	5.SS.2, [C, CN, ME, PS, R, V]
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM5-13	The Mean	7.SP.1
PDM5-14	Finding the Mean	7.SP.1
PDM5-15	Mean (Advanced)	7.SP.1
PDM5-16	Stem and Leaf Plots	7.SP.1
PDM5-17	The Mode, Median, and Range	7.SP.1
PDM5-18	Choices in Data Representation	6.SP.1
PDM5-19	Outcomes	5.SP.3, 5.SP.4, [C, CN, P, V]
PDM5-20	Describing Probability	5.SP.3, 5.SP.4, [C, CN, P, V]
PDM5-21	Probability	5.SP.3, 5.SP.4, [C, CN, P, V], 6.SP.4
PDM5-22	Advanced Probability	5.SP.3, 5.SP.4, [C, CN, P, V], 6.SP.4
PDM5-23	Expectation	5.SP.3, 5.SP.4, [C, CN, P, V], 6.SP.4
PDM5-24	Games and Expectation	5.SP.3, 5.SP.4, [C, CN, P, V], 6.SP.4
<b>Unit 5</b>	<b>Geometry</b>	
G5-18	Introduction to Coordinate Systems	preparation for 5.SS.8
G5-19	Coordinate Systems	preparation for 5.SS.8
G5-20	Introduction to Slides	5.SS.7, 5.SS.8, [C, CN, T, V]
G5-21	Slides	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6
G5-22	Slides (Advanced)	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6
G5-23	Coordinate Grids and Maps	5.SS.7, 5.SS.8, [C, CN, T, V]



<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G5-24	Reflections	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6
G5-25	Rotations	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6
G5-26	Rotations (Advanced)	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6
G5-27	Rotations and Reflections	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6
G5-28	Slides, Rotations and Reflections	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6
G5-29	Slides, Rotations and Reflections (Advanced)	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6
G5-30	Building Pyramids	4.SS.4, preparation for 5.SS.5
G5-31	Building Prisms	4.SS.4, preparation for 5.SS.5
G5-32	Edges, Faces, and Vertices	4.SS.4, preparation for 5.SS.5
G5-33	Prisms and Pyramids	4.SS.4, preparation for 5.SS.5
G5-34	Prism and Pyramid Bases	4.SS.4, preparation for 5.SS.5
G5-35	Properties of Pyramids and Prisms	4.SS.4
G5-36	Nets and Faces	4.SS.4, 4.SS.5
G5-37	Sorting 3-D Shapes	4.PR.4, 4.SS.4, 5.SS.5, [C, CN, R, T, V]
G5-38	Tessellations	5.SS.7, [C, CN, T, V]
G5-39	Making Patterns with Transformations	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6, 6.SS.7
G5-40	Patterns with Transformations (Advanced)	5.SS.7, 5.SS.8, [C, CN, T, V], 6.SS.6, 6.SS.7
G5-41	Isoparametric Drawings	N/A
G5-42	Building and Drawing Figures	N/A
G5-43	Geometry in the World	5.SS.7, 5.SS.8, [C, CN, T, V]
G5-44	Problems and Puzzles	5.SS.7, 5.SS.8, [C, CN, T, V]



# JUMP Math–Manitoba Curriculum Correlations: Grade 6

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Grade 6 Part 1</b>		
<b>Unit 1</b>	<b>Patterns &amp; Algebra</b>	
PA6-1	Increasing Sequences	5.PR.1, preparation for 6.PR.1
PA6-2	Decreasing Sequences	5.PR.1, preparation for 6.PR.1
PA6-3	Extending a Pattern Using a Rule	5.PR.1, preparation for 6.PR.1
PA6-4	Identifying Pattern Rules	5.PR.1, preparation for 6.PR.1
PA6-5	Introduction to T-tables	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-6	T-tables	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-7	T-tables (Advanced)	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-8	Repeating Patterns	5.PR.1
PA6-9	Extending Patterns & Predicting Positions	5.PR.1
PA6-10	Number Lines	3.PR.1, 3.PR.2
PA6-11	Lowest Common Multiples	6.N.3, [PS, R,V]
PA6-12	Describing and Creating Patterns	5.PR.1
PA6-13	2-Dimensional Patterns	5.PR.1
PA6-14	Extensions	4.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-15	Finding Rules for T-tables – Part I	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-16	Finding Rules for Patterns – Part I	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-17	Direct Variation	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-18	Finding Rules for Patterns – Part II	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-19	Predicting the Gap Between Terms in a Pattern	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-20	Finding Rules for T-tables – Part II	5.PR.1, 6.PR.1, [C, CN, PS, R]
PA6-21	Applying Rules for Patterns	6.PR.1, [C, CN, PS, R]
<b>Unit 2</b>	<b>Number Sense</b>	
NS6-1	Introduction to Place Value	5.N.1, 6.N.1, [C, CN, R, T]
NS6-2	Place Value	5.N.1, 6.N.1, [C, CN, R, T]
NS6-3	Reading and Writing Large Numbers	5.N.1, 6.N.1, [C, CN, R, T]
NS6-4	Representation with Base Ten Materials	5.N.1, 6.N.1, [C, CN, R, T]
NS6-5	Representation in Expanded Form	5.N.1, 6.N.1, [C, CN, R, T]
NS6-6	Comparing and Ordering Numbers	5.N.1, 6.N.1, [C, CN, R, T]
NS6-7	Differences from 10 to 10 000	5.N.1, 6.N.1, [C, CN, R, T]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS6-8	Comparing Numbers (Advanced)	5.N.1, 6.N.1, [C, CN, R, T]
NS6-9	Regrouping	5.N.1
NS6-10	Adding With Regrouping	4.N.3
NS6-11	Adding 3-Digit Numbers	4.N.3
NS6-12	Adding Larger Numbers	4.N.3
NS6-13	Subtraction	4.N.3
NS6-14	Adding and Subtracting	4.N.3
NS6-15	Concepts in Number Sense	5.N.1, 6.N.1, [C, CN, R, T]
NS6-16	Array and Factors	6.N.3, [PS, R,V]
NS6-17	Prime Numbers and Composite Numbers	6.N.3, [PS, R,V]
NS6-18	More Primes, Factors, and Composite Numbers	6.N.3, [PS, R,V]
NS6-19	Prime Factorizations	6.N.3, [PS, R,V]
NS6-20	Multiples of 10	5.N.4, 6.N.3, [PS, R,V]
NS6-21	Mental Math	5.N.4, preparation for 6.N.8
NS6-22	The Standard Method for Multiplication	preparation for 6.N.8
NS6-23	Regrouping in Multiplication	5.N.5, preparation for 6.N.8
NS6-24	Multiplying – 3-Digit by 1-Digit	5.N.5, preparation for 6.N.8
NS6-25	Multiplying by 10, 100 and 1000	5.N.2, 5.N.4, preparation for 6.N.8
NS6-26	Mental Math – Multiples of Ten	5.N.5, preparation for 6.N.8
NS6-27	Multiplying – 2-Digit by Multiples of Ten	5.N.5, preparation for 6.N.8
NS6-28	Multiplying – 2-Digit by 2-Digit	5.N.5, preparation for 6.N.8
NS6-29	Topics in Multiplication	5.N.3
NS6-30	Concepts in Multiplication	6.N.3, [PS, R,V]
NS6-31	Sets	5.N.6
NS6-32	Two Ways of Sharing	5.N.6
NS6-33	Dividing by Skip Counting	5.N.3, 5.N.6
NS6-34	Remainders	5.N.6
NS6-35	Long Division – 2-Digit by 1-Digit	5.N.6, preparation for 6.N.8
NS6-36	Long Division – 3- and 4-Digit by 1-Digit	5.N.6, preparation for 6.N.8
NS6-37	Topics in Division	5.N.6

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS6-38	Concepts in Multiplication and Division	5.N.5, 5.N.6
NS6-39	Rounding on a Number Line	5.N.2
NS6-40	Rounding	5.N.2
NS6-41	Estimating Sums and Differences	5.N.2
NS6-42	Estimating	5.N.2
NS6-43	Methods of Estimation	5.N.2
NS6-44	Counting Coins	N/A
NS6-45	Counting by Different Denominations	N/A
NS6-46	Least Number of Coins and Bills	N/A
NS6-47	Dollar and Cent Notation	N/A
NS6-48	Making Change Using Mental Math	5.N.11
NS6-49	Adding Money	5.N.11
NS6-50	Subtracting Money	5.N.11
NS6-51	Estimation	5.N.2, 5.N.11
NS6-52	Integers	6.N.7, [C, CN, R, V], 7.N.6
NS6-53	Organized Lists	6.N.3, [PS, R, V]
<b>Unit 3</b>	<b>Measurement</b>	
ME6-1	Mass – Milligrams, Grams, and Kilograms	N/A
ME6-2	Volume	5.SS.3, 6.SS.3, [C, CN, PS, R, V]
ME6-3	Volume of Rectangular Prisms	5.SS.3, 6.SS.3, [C, CN, PS, R, V]
ME6-4	Elapsed Time	4.SS.1
ME6-5	Subtracting Times	4.N.3
ME6-6	The 24-Hour Clock	4.SS.1
ME6-7	Topics in Time	4.SS.1, 4.N.3
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM6-1	Venn Diagrams – A Review	4.PR.4
PDM6-2	Bar Graphs	4.SP.2, preparation for 6.SP.3
PDM6-3	Double Bar Graphs	5.SP.2, preparation for 6.SP.3
PDM6-4	Stem and Leaf Plots	7.SP.1
PDM6-5	Broken Line Graphs – An Introduction	6.SP.1, [C, CN, PS, R, V]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
PDM6-6	Reading Graphs	6.PR.2, 6.SP.1, [C, CN, ME, PS, R, V], preparation for 6.SP.3
PDM6-7	Making Predictions from Broken Line Graphs	6.SP.1, [C, CN, PS, R, V], preparation for 6.SP.3
PDM6-8	Continuous and Discrete Data	preparation for 6.SP.1
PDM6-9	Continuous Line Graphs	6.PR.2, 6.SP.1, [C, CN, ME, PS, R, V]
PDM6-10	Scatter Plots	preparation for 6.SP.3
PDM6-11	The Mean	7.SP.1
PDM6-12	Finding the Mean	7.SP.1
PDM6-13	Mean (Advanced)	7.SP.1
PDM6-14	The Median, Mean, and Range	7.SP.1
PDM6-15	The Mode, Median, Mean, and Range	7.SP.1
PDM6-16	Choosing and Interpreting Graphs	6.SP.1, 6.SP.3, [C, CN, PS, R, V]
PDM6-17	Primary and Secondary Data	5.SP.1, 6.SP.2, [C, PS, T]
PDM6-18	Samples and Surveys	5.SP.1, 6.SP.2, [C, PS, T]
PDM6-19	Bias in a Sample	6.SP.2, [C, PS, T]
PDM6-20	Designing, Displaying, and Analyzing a Survey or Experiment	5.SP.1, 6.SP.2, 6.SP.3, [C, CN, PS, T]
<b>Unit 5</b>	<b>Geometry</b>	
G6-1	Sides and Vertices of 2-D Figures	3.SS.7
G6-2	Introduction to Angles	6.SS.1, [C, CN, ME, V]
G6-3	Measuring Angles	6.SS.1, [C, CN, ME, V]
G6-4	Constructing Angles	6.SS.1, [C, CN, ME, V]
G6-5	Angles in Triangles and Polygons	6.SS.1, 6.SS.2, 6.SS.4, [C, CN, ME, PS, R, V]
G6-6	Constructing Triangles and Polygons	6.SS.2, 6.SS.4, [C, PS, R, V]
G6-7	Naming Angles	6.SS.1, 6.SS.4, [C, CN, ME, PS, R, V]
G6-8	Classifying Triangles	5.SS.5, 6.SS.1, 6.SS.4, [C, CN, ME, PS, R, V]
G6-9	Triangles	5.SS.5, 6.SS.1, 6.SS.2, 6.SS.4, [C, CN, ME, PS, R, V]
G6-10	Parallel Lines	5.SS.5
G6-11	Properties of Shapes	5.SS.5, 5.SS.5, 6.SS.5, [C, PS, R, V]
G6-12	Special Quadrilaterals	5.SS.5, 5.SS.6, 6.SS.5, [C, PS, R, V]
G6-13	Diagonal Properties of Quadrilaterals	5.SS.6

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G6-14	Exploring Congruency	6.SS.5, [C, PS, R, V]
G6-15	Similarity	N/A
G6-16	Symmetry	6.SS.6, [C, CN, PS, T, V]
G6-17	Comparing Shapes	5.SS.5, 5.SS.6, 6.SS.5, [C, PS, R, V]
G6-18	Sorting and Classifying Shapes	5.SS.5, 5.SS.6, 6.SS.5, [C, PS, R, V]
G6-19	Sorting and Classifying Shapes (Advanced)	6.SS.5, [C, PS, R, V]
G6-20	Puzzles and Problems	N/A
<b>Grade 6 Part 2</b>		
<b>Unit 1</b>	<b>Patterns &amp; Algebra</b>	
PA6-22	Patterns with Increasing & Decreasing Steps – Part I	preparation for 6.PR.1
PA6-23	Patterns with Increasing & Decreasing Steps – Part II	6.PR.1, [C, CN, PS, R]
PA6-24	Advanced Patterns	6.PR.1, [C, CN, PS, R]
PA6-25	Creating and Extending Patterns	6.PR.1
PA6-26	Patterns with Larger Numbers	6.N.2, 6.PR.1, [C, CN, ME, PS, R, T]
PA6-27	Equations	6.PR.3, 6.PR.4, [C, CN, PS, R, V]
PA6-28	Equations (Advanced)	6.PR.3, [C, CN, PS, R, V], 7.PR.3, 7.PR.6, 7.PR.7
PA6-29	Variables	5.PR.2, 6.PR.3, [C, CN, PS, R, V]
PA6-30	Algebraic Puzzles	6.PR.4, [C, CN, PS, R, V]
PA6-31	Graphs	6.PR.2, 6.SS.8, 6.SP.1, [C, CN, ME, PS, R, V]
PA6-32	Interpreting Graphs (Advanced)	6.PR.2, 6.SS.8, 6.SP.1, [C, CN, ME, PS, R, V]
PA6-33	Concepts in T-tables (Advanced)	6.PR.1, [C, CN, PS, R]
PA6-34	Predicting Patterns	7.PR.1
PA6-35	Problems and Puzzles	6.PR.1, [C, CN, PS, R]
<b>Unit 2</b>	<b>Number Sense</b>	
NS6-54	Equal Parts and Models of Fractions	5.N.7
NS6-55	Equal Parts of a Set	5.N.7
NS6-56	Parts and Wholes	5.N.7
NS6-57	Adding and Subtracting Fractions	7.N.5
NS6-58	Ordering and Comparing Fractions	5.N.7
NS6-59	Mixed Fractions	5.N.7, preparation for 6.N.4

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS6-60	Improper Fractions	5.N.7, preparation for 6.N.4
NS6-61	Mixed and Improper Fractions	5.N.7, 6.N.4, [CN, ME, R, V]
NS6-62	Mixed Fractions (Advanced)	6.N.4, [CN, ME, R, V]
NS6-63	Mixed & Improper Fractions (Advanced)	6.N.4, [CN, ME, R, V]
NS6-64	Investigating Mixed & Improper Fractions	6.N.4, [CN, ME, R, V]
NS6-65	Equivalent Fractions	5.N.7
NS6-66	Models of Equivalent Fractions	5.N.7
NS6-67	Fractions of Whole Numbers	7.N.3, 8.N.6
NS6-68	Reducing Fractions	N/A
NS6-69	Lowest Common Multiples in Fractions	N/A
NS6-70	Comparing and Ordering Fractions	5.N.7
NS6-71	Comparing and Ordering Fractions (Advanced)	5.N.7
NS6-72	Fractions Review	5.N.7, 6.N.4, [CN, ME, R, V], 7.N.3, 7.N.5, 8.N.6
NS6-73	Decimal Hundredths	5.N.8, 5.N.9, 6.N.1, [C, CN, R, T]
NS6-74	Tenths and Hundredths	5.N.8, 5.N.9, 6.N.1, [C, CN, R, T]
NS6-75	Changing Tenths to Hundredths	5.N.8, 5.N.9, 6.N.1, [C, CN, R, T]
NS6-76	Decimals, Money and Measurement	6.N.1, [C, CN, R, T], 7.N.2
NS6-77	Changing Notation: Fractions and Decimals	5.N.8, 5.N.9, 6.N.1, [C, CN, R, T]
NS6-78	Decimals and Fractions Greater Than One	5.N.8, 5.N.9, 6.N.1, [C, CN, R, T]
NS6-79	Decimals and Fractions on Number Lines	5.N.7, 5.N.8, 5.N.10, 6.N.4, [CN, ME, R, V]
NS6-80	Comparing and Ordering Fractions and Decimals	7.N.2, 7.N.7
NS6-81	Ordering Fractions and Decimals	6.N.4, [CN, ME, R, V], 7.N.2, 7.N.7
NS6-82	Thousandths	6.N.1, [C, CN, R, T], 7.N.2, 7.N.7
NS6-83	Adding Hundredths	5.N.11, 7.N.2
NS6-84	Subtracting Hundredths	5.N.11, 7.N.2
NS6-85	Adding and Subtracting Decimals	5.N.11, 7.N.2
NS6-86	Multiplying Decimals by 10	6.N.8, [C, CN, ME, PS, R, V]
NS6-87	Multiplying Decimals by 100 and 1 000	6.N.8, [C, CN, ME, PS, R, V]



<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS6-88	Multiplying Decimals by Whole Numbers	6.N.8, [C, CN, ME, PS, R, V]
NS6-89	Dividing Decimals by 10 and 100	6.N.8, [C, CN, ME, PS, R, V]
NS6-90	Dividing Decimals by Whole Numbers	6.N.8, [C, CN, ME, PS, R, V]
NS6-91	Differences of 0.1, 0.01, and 0.001	5.N.8, 5.N.10, 6.N.1, [C, CN, R, T]
NS6-92	Place Value and Rounding	6.N.1, 6.N.8, [C, CN, ME, PS, R, T, V]
NS6-93	Decimals Review	6.N.1, 6.N.8, [C, CN, ME, PS, R, T, V]
NS6-94	Word Problems with Decimals	6.N.8, [C, CN, ME, PS, R, V]
NS6-95	Unit Rates	6.N.5, [C, CN, PS, R, V], 7.SS.1
NS6-96	Introduction to Ratios	6.N.5, [C, CN, PS, R, V]
NS6-97	Equivalent Ratios	6.N.5, [C, CN, PS, R, V]
NS6-98	Finding Equivalent Ratios	6.N.5, [C, CN, PS, R, V]
NS6-99	Word Problems (Advanced)	6.N.5, [C, CN, PS, R, V]
NS6-100	Advanced Ratios	6.N.5, [C, CN, PS, R, V]
NS6-101	Percents	6.N.6, [C, CN, PS, R, V], 7.N.3
NS6-102	Visual Representations of Percents	6.N.6, [C, CN, PS, R, V], 7.N.3
NS6-103	Comparing Decimals, Fractions, & Percents	6.N.6, [C, CN, PS, R, V], 7.N.3, 7.N.7,
NS6-104	Finding Percents	6.N.6, [C, CN, PS, R, V], 7.N.3
NS6-105	Finding Percents (Advanced)	6.N.6, [C, CN, PS, R, V], 7.N.3
NS6-106	Percents: Word Problems	6.N.6, [C, CN, PS, R, V]
NS6-107	Circle Graphs	6.N.6, [C, CN, PS, R, V], 7.SP.3
NS6-108	Fractions, Ratios and Percents	6.N.6, [C, CN, PS, R, V], 7.N.3
NS6-109	2-Digit Division	5.N.6
NS6-110	2-Digit Division – Correcting Your Estimate	5.N.6
NS6-111	Concepts in Careers and the Media	6.N.1, 6.N.8, [C, CN, ME, PS, R, T, V]
NS6-112	Word Problems (Advanced)	6.N.2, 6.N.8, 6.N.9, [C, CN, ME, PS, R, T, V]
<b>Unit 3</b>	<b>Measurement</b>	
ME6-8	Millimetres and Centimetres	5.SS.2
ME6-9	Decimetres	N/A
ME6-10	Metres and Kilometres	5.SS.2
ME6-11	Comparing Units	5.SS.2
ME6-12	Changing Units	5.SS.2

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
ME6-13	Appropriate Units of Length	6.N.2, [ME, PS, T]
ME6-14	Speed	N/A
ME6-15	Tall Buildings	N/A
ME6-16	The Welland Canal	N/A
ME6-17	Changing Units of Measurement (Review)	5.SS.2
ME6-18	Exploring Perimeter	6.PR.3, [C, CN, PS, R, V], preparation for 6.SS.3
ME6-19	Measuring Perimeter	6.PR.3, 6.SS.3, [C, CN, PS, R, V]
ME6-20	Investigating Perimeter	6.PR.1, 6.PR.3, 6.SS.3, [C, CN, PS, R, V]
ME6-21	Circles and Irregular Polygons	7.SS.1
ME6-22	Area in Square Centimetres	6.PR.3, [C, CN, PS, R, V], preparation for 6.SS.3
ME6-23	Area of Rectangles	6.PR.3, 6.SS.3, [C, CN, PS, R, V]
ME6-24	Exploring Area	6.SS.3, [C, CN, PS, R, V]
ME6-25	Comparing Area and Perimeter	6.SS.3, [C, CN, PS, R, V]
ME6-26	Area and Perimeter	6.SS.3, [C, CN, PS, R, V]
ME6-27	Area of Polygons and Irregular Shapes	7.SS.2
ME6-28	Problems and Puzzles	6.SS.3, [C, CN, PS, R, V]
ME6-29	Area and Perimeter (Advanced)	6.SS.3, 6.N.5, [C, CN, PS, R, V]
ME6-30	Area of Parallelograms	7.SS.2
ME6-31	Area of Triangles	7.SS.2
ME6-32	Investigations	6.SS.3, [C, CN, PS, R, V]
ME6-33	Volume and Capacity of Rectangular Prisms	6.SS.3, [C, CN, PS, R, V]
ME6-34	Kilograms and Metric Tonnes	6.N.8, [C, CN, ME, PS, R, V]
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM6-21	Outcomes	6.SP.4, [C, ME, PS, T]
PDM6-22	Probability	6.SP.4, [C, ME, PS, T]
PDM6-23	Further Probability	6.SP.4, [C, ME, PS, T]
PDM6-24	Expectation	6.SP.4, [C, ME, PS, T]
PDM6-25	Describing Probability	6.SP.4, [C, ME, PS, T]
PDM6-26	Games and Expectation	6.SP.4, [C, ME, PS, T]
PDM6-27	Puzzles and Problems	6.SP.4, [C, ME, PS, T]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
PDM6-28	Tree Diagrams	6.SP.4, 7.SP.5
PDM6-29	Counting Combinations	6.SP.4, 7.SP.5
PDM6-30	Compound Events	6.SP.4, 7.SP.5, 7.SP.6
<b>Unit 5</b>	<b>Geometry</b>	
G6-21	Coordinate Systems	6.SS.7, [C, CN, V], 7.SS.4
G6-22	Coordinate Systems (Advanced)	6.SS.7, [C, CN, V], 7.SS.4
G6-23	Slides	5.SS.7, 5.SS.8, preparation for 6.SS.9
G6-24	Slides (Advanced)	6.SS.6, [C, CN, PS, T, V], preparation for 6.SS.9
G6-25	Coordinate Systems and Maps	5.SS.7, 5.SS.8,
G6-26	Reflections	5.SS.7, 5.SS.8, 6.SS.6, [C, CN, PS, T, V]
G6-27	Rotations	5.SS.7, 5.SS.8, 6.SS.6, [C, CN, PS, T, V]
G6-28	More Rotations	6.SS.6, [C, CN, PS, T, V]
G6-29	Rotations and Reflections	5.SS.7, 5.SS.8, 6.SS.6, [C, CN, PS, T, V], preparation for 6.SS.9
G6-30	Transformations on Grid and Dot Paper	6.SS.6, [C, CN, PS, T, V], preparation for 6.SS.9
G6-31	Transformations (Advanced)	6.SS.6, 6.SS.9, [C, CN, PS, T, V]
G6-32	Slides, Rotations and Reflections – Review	6.SS.6, [C, CN, PS, T, V]
G6-33	Building Pyramids	5.SS.5
G6-34	Building Prisms	5.SS.5
G6-35	Edges, Faces, and Vertices	5.SS.5
G6-36	Prisms and Pyramids	5.SS.5
G6-37	Prism and Pyramid Bases	5.SS.5
G6-38	Properties of Pyramids and Prisms	5.SS.5
G6-39	Nets and Faces	4.SS.4, 4.SS.5
G6-40	Sorting 3-D Shapes	5.SS.5
G6-41	Creating Patterns with Transformations	5.SS.7, 5.SS.8, 6.SS.6, 6.SS.7, [C, CN, PS, T, V]
G6-42	Isoparametric Drawings	N/A
G6-43	Drawing Figures and Mat Plans	N/A
G6-44	Orthographic Drawings	N/A
G6-45	Problems and Puzzles	N/A



# JUMP Math–Manitoba Curriculum Correlations: Grade 7

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Grade 7 Part 1</b>		
<b>Unit 1</b>	<b>Number Sense</b>	
NS7-1	Place Value	5.N.1, 6.N.1
NS7-2	Order of Operations	6.N.9
NS7-3	Equations	5.N.3, 5.N.4
NS7-4	Properties of Operations	5.N.3, 5.N.4
NS7-5	Multiplication and Division with 0 and 1	7.N.1, [R]
NS7-6	The Area Model for Multiplication	5.N.5
NS7-7	Breaking Multiplication into Simpler Problems	5.N.3, 5.N.4, 5.N.5
NS7-8	Long Multiplication	5.N.5
<b>Unit 2</b>	<b>Patterns &amp; Algebra</b>	
PA7-1	Extending Patterns	6.PR.1, preparation for 7.PR.1
PA7-2	Describing Patterns	6.PT.1, preparation for 7.PR.1
PA7-3	T-tables	6.PR.1, preparation for 7.PR.1
PA7-4	Patterns (Advanced)	6.PR.1, preparation for 7.PR.1
PA7-5	Constant Rates	7.PR.5, [C, PS]
PA7-6	Solving Equations — Guess and Check	5.PR.2, [R, C]
PA7-7	Modelling Equations	7.PR.4, 7.PR.6, 7.PR.7, [C, R, V]
PA7-8	Solving Equations — Preserving Equality	7.PR.3, 7.PR.6, 7.PR.7, [R]
PA7-9	Solving Equations — Two Operations	7.PR.3, 7.PR.6, 7.PR.7, [R, PS, C]
PA7-10	Modelling Equations — Advanced	7.PR.3, 7.PR.6, 7.PR.7, [V, PS]
PA7-11	Solving Equations — Advanced	7.PR.7, [PS, R]
PA7-12	Equations and Expressions	7.PR.4, 7.PR.7, [C]
PA7-13	Dividing by a Constant	7.PR.7, [R, V]
PA7-14	Word Problems	7.PR.7, [C, CN, PS, R]
PA7-15	Investigating Equations	6.PR.3, preparation for 7.PR.2, [R]
<b>Unit 3</b>	<b>Number Sense</b>	
NS7-9	Factors and Multiples	6.N.3, preparation for 7.N.1, [R, C]
NS7-10	Organized Search	6.N.3
NS7-11	LCMs and GCFs	6.N.3

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS7-12	Perfect Squares and Square Roots	optional, [R, C], 8.N.1
NS7-13	Counter-Examples	6.N.1., 7.N.1 [R, C]
NS7-14	Divisibility by 2, 5, and 10	7.N.1, [R, C]
NS7-15	Divisibility by 3, 6, and 9	7.N.1, [R, C, V]
NS7-16	Divisibility by 2, 4, and 8	7.N.1, [R, C, T]
NS7-17	Problems and Puzzles	N/A
NS7-18	Fractions	6.N.4
NS7-19	Mixed Numbers	6.N.4
NS7-20	Improper Fractions	6.N.4
NS7-21	Mixed Numbers and Improper Fractions	6.N.4
NS7-22	Fractions of Whole Numbers	preparation for 7.N.3, [V, R, C, N, C]
NS7-23	Comparing Fractions — Introduction	6.N.4
NS7-24	Equivalent Fractions	7.N.5, [CN, V]
NS7-25	Comparing Fractions Using Equivalent Fractions	7.N.5, [C, R, ME, V, CN]
NS7-26	Problems and Puzzles	7.N.5, [R, V]
NS7-27	Adding and Subtracting Fractions	7.N.5, [R, CN, V]
NS7-28	Lowest Terms	7.N.5, [R, C, ME, PS]
NS7-29	Adding and Subtracting Mixed Numbers	7.N.5, [R, CN, V]
NS7-30	Mental Math	7.N.5, [R, C, ME, PS]
NS7-31	Problems and Puzzles	7.N.5, [R, C, ME, PS]
<b>Unit 4</b>	<b>Geometry</b>	
G7-1	Points and Lines	7.SS.3, [CN, V, T]
G7-2	Angles and Shapes	6.SS.1
G7-3	Measuring and Drawing Angles and Triangles	6.SS.1
G7-4	Perpendicular Lines	6.SS.1, 7.SS.3, [CN, V, T]
G7-5	Perpendicular Bisectors	6.SS.1, 7.SS.3, [C, R, V, T]
G7-6	Parallel Lines	5.SS.5, 7.SS.3, [C, R, PS]
G7-7	Angle Relationships	6.SS.2, 7.SS.1, [C, R, V]
G7-8	Triangle Properties	6.SS.4
G7-9	Angle Bisectors	6.SS.4, 7.SS.3, [C, CN, PS, R, V]
G7-10	Quadrilateral Properties	5.SS.6, 6.SS.5, [R, V]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G7-11	Symmetry	6.SS.4, 7.SS.3 [C, CN, R, V]
G7-12	Making a Sketch	6.SS.1
<b>Unit 5</b>	<b>Number Sense</b>	
NS7-32	Decimal Fractions	5.N.8, 5.N.9, 7.N.2, [CN, R, V]
NS7-33	Place Value and Decimals	5.N.8, 5.N.9, 7.N.2, [C, CN, R, V]
NS7-34	Fractions and Decimals	5.N.8, 5.N.9, 7.N.2, [C, CN, R]
NS7-35	Decimals, Money, and Measurements	6.N.1, 7.N.2, [CN, V]
NS7-36	Decimals and Fractions Greater Than 1	5.N.8, 5.N.9, 6.N.1, 7.N.2, 7.N.4, [C, CN, R]
NS7-37	Comparing and Ordering Tenths and Hundredths	6.N.1, preparation for 7.N.7, [CN, R, V]
NS7-38	Ordering Decimals and Fractions to Thousandths	6.N.1, 7.N.2, 7.N.7, [C, CN, R, V]
NS7-39	Regrouping Decimals	7.N.2, [CN, V]
NS7-40	Addition Strategies for Decimals	5.N.11, 7.N.2, [CN]
NS7-41	Adding and Subtracting Decimals	5.N.11, 7.N.2, [CN, R, PS]
NS7-42	Rounding Review	5.N.11, preparation for 7.N.2, [C, CN, ME, T]
NS7-43	Rounding Decimals	5.N.11, 7.N.2, [C, CN, ME, T]
NS7-44	Estimating Decimal Sums and Differences	5.N.11, 7.N.2, [CN, ME, PS, T]
NS7-45	Multiplying Decimals by 10	6.N.8, preparation for 7.N.2, [CN, R, ME, PS, V]
NS7-46	Multiplying Decimals by 100 and 1 000	6.N.8, preparation for 7.N.2, [CN, R, ME, PS, V]
NS7-47	Dividing Decimals by 10 and 100	6.N.8, preparation for 7.N.2, [R, ME, PS, V]
NS7-48	Multiplying and Dividing by Powers of 10	6.N.8, preparation for 7.N.2, [R, ME, PS, V]
NS7-49	Multiplying Decimals by Whole Numbers	6.N.8, preparation for 7.N.2, [ME, CN, PS]
NS7-50	Multiplying Decimals Using Different Strategies	6.N.8, 7.N.2, [ME, CN, PS]
NS7-51	Dividing Decimals Using Different Strategies	6.N.8, 7.N.2, [R, V, ME, PS]
NS7-52	Long Division	6.N.8, preparation for 7.N.2, [ME, R, V]
NS7-53	Dividing Decimals by Whole Numbers	6.N.8, preparation for 7.N.2, [ME, R, V]
NS7-54	Decimals Review	7.N.2, 7.N.7, [CN, ME, PS, R, T, V]

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Unit 6</b>	<b>Measurement</b>	
ME7-1	Changing Units	5.SS.2, [CN]
ME7-2	Changing Units to Divide Decimals	7.N.2, [CN, R]
ME7-3	Changing Units of Area	7.N.2, [R, C]
ME7-4	Area of Parallelograms	7.SS.2, [C, CN, ME]
ME7-5	Area of Triangles	7.SS.2, [C, R, V]
ME7-6	Area of Triangles and Parallelograms	7.SS.2, [R, C]
ME7-7	Problem-Solving — Using a Formula	7.SS.2, [C, CN, PS, R, V]
ME7-8	Area of Trapezoids	N/A
ME7-9	Area of Trapezoids and Parallelograms	7.SS.2
ME7-10	Area of Composite Shapes	optional
ME7-11	Introduction to Ratios	6.N.5
ME7-12	Equivalent Ratios	6.N.5
ME7-13	Solving Proportions	6.N.5, 8.N.4, 8.N.5
ME7-14	Word Problems	6.N.5, 8.N.4, 8.N.5
ME7-15	Rates	6.N.5, preparation for 7.SS.1, [R, C]
ME7-16	Using Unit Rates	6.N.5, preparation for 7.SS.1, [R, C]
ME7-17	Ratios and Rates with Fractional Terms	8.N.4
ME7-18	Circles	7.SS.1, [C, CN]
ME7-19	Circumference	7.SS.1, [R, ME]
ME7-20	Area of Circles	7.SS.2, [R, V]
ME7-21	Area and Circumference	7.SS.2, [C, CN, R]
<b>Unit 7</b>	<b>Probability &amp; Data Management</b>	
PDM7-1	Stem and Leaf Plots	7.SP.1, [C, R]
PDM7-2	The Mean	7.SP.1, [C, CN, R, V]
PDM7-3	Mean, Median, Mode, and Range	7.SP.1, [C, CN, R, T]
PDM7-4	Using the Mean, Median, and Mode	7.SP.1, [C, R]
PDM7-5	Outliers	7.SP.2, [R, T]
<b>Grade 7 Part 2</b>		
<b>Unit 1</b>	<b>Number Sense</b>	
NS7-55	Relating Fractions and Decimals (Review)	7.N.4, [CN, C]



<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS7-56	Fraction and Decimal Patterns	7.N.2, 7.N.4, 7.N.5, [CN, R, C]
NS7-57	Relating Fractions and Division	7.N.4, [R, T, CN, C], 8.N.3
NS7-58	Repeating Decimals	7.N.4, [R, CN, T, C], 8.N.3
NS7-59	Using Decimals to Compare Fractions	7.N.4, 7.N.7, [R, ME, C, CN], 8.N.3
NS7-60	Is the Fraction a Terminating or Repeating Decimal?	7.N.4, [CN, R, C, T], 8.N.3
NS7-61	Adding and Subtracting Repeating Decimals	7.N.4, [C, R, CN], 8.N.3
NS7-62	Writing Repeating Decimals as Fractions	7.N.4, [R, CN, T], 8.N.3
NS7-63	Writing Repeating Decimals as Fractions (Advanced)	7.N.4, [R, CN, T], 8.N.3
NS7-64	Percents	7.N.3, [CN, R, C]
NS7-65	Adding and Subtracting Percents	7.N.3, [R, CN, C, V]
NS7-66	Tenths, Decimals, and Percents	7.N.3, [R, CN, C, V]
NS7-67	Fractions and Percents	7.N.3, 7.N.7, [CN, R, ME, C], 8.N.3
NS7-68	Visual Representations of Percents	7.N.3, 7.N.7, [CN, C, R, V], 8.N.3, 8.N.5
NS7-69	Comparing Fractions, Decimals, and Percents	7.N.3, 7.N.7, [CN, C, R, V], 8.N.3, 8.N.5
NS7-70	Finding Percents	7.N.3, [V, ME, R, CN, C], 8.N.3
NS7-71	Further Percents	7.N.3, [CN, R, ME, C], 8.N.3
NS7-72	Writing Equivalent Statements for Proportions	7.N.3, [R, CN], 8.N.3
NS7-73	Using Proportions to Solve Percent Problems	7.N.3, [CN, C, R], 8.N.3
NS7-74	Percent Problems	7.N.3, [CN, C, R], 8.N.3
NS7-75	Relating Fractions, Ratios, and Percents	7.N.3, [PS, R, C, CN], 8.N.3
NS7-76	Using Linear Models to Solve Problems	7.N.3, [V, R, PS, C]
NS7-77	Finding the Whole from the Part	7.N.3, [V, R, PS, C]
NS7-78	Multiplying Fractions by Whole Numbers	preparation for 7.N.2, [ME, CN], 8.N.6
NS7-79	Multiplying Fractions by Fractions	preparation for 7.N.2, [C, R, ME, V], 8.N.6
NS7-80	Dividing Whole Numbers by Fractions	8.N.6
NS7-81	Word Problems	8.N.6

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS7-82	Multiplying Decimals by 0.1, 0.01, and 0.001	6.N.8, preparation for 7.N.2, [ME, PS]
NS7-83	Multiplying Decimals by Decimals	6.N.8, 7.N.2, [ME, PS]
NS7-84	Relating Fractions and Decimals Using Units	preparation for 7.SS.1, 7.SS.2, [R, CN, C, PS]
NS7-85	Mixed Measurements	preparation for 7.SS.1, 7.SS.2, [R, CN, C, PS]
<b>Unit 2</b>	<b>Measurement</b>	
ME7-22	Volume of Rectangular Prisms	6.SS.3
ME7-23	Right and Skew Prisms	6.SS.3
ME7-24	Volume of Triangular Prisms	8.SS.4
ME7-25	Volume of Polygonal Prisms	8.SS.4
ME7-26	Surface Area of Rectangular Prisms	8.SS.3
ME7-27	Nets and Surface Area	8.SS.2
ME7-28	Volume and Surface Area	8.SS.3, 8.SS.4
<b>Unit 3</b>	<b>Probability &amp; Data Management</b>	
PDM7-6	Bar Graphs	6.SP.1, 6.SP.3
PDM7-7	Double Bar Graphs	5.SP.2, 6.SP.1, 8.SP.1
PDM7-8	Line Graphs	6.SP.1, 6.SP.3, 8.SP.1
PDM7-9	Tallies and Frequency Tables	7.SP.3, [V, C]
PDM7-10	Circle Graphs	7.SP.3, [R, CN, T, C]
PDM7-11	Drawing Circle Graphs	7.SP.3, [R, CN, T, C]
PDM7-12	Reading Circle Graphs	7.SP.3, [R, CN, T, C]
PDM7-13	Using Circle Graphs for Mean, Median, and Mode	7.SP.1, 7.SP.3, [R, CN, V, C]
PDM7-14	Comparing Graphs	8.SP.1
PDM7-15	Bias in a Sample or a Census	8.SP.1
PDM7-16	Designing, Displaying, and Analyzing a Survey	8.SP.1
<b>Unit 4</b>	<b>Patterns &amp; Algebra</b>	
PA7-16	Formulas	7.PR.1, 7.PR.2, [C, R, PS], 8.PR.1
PA7-17	Ordered Pairs	7.PR.1, 7.PR.2, [C], 8.PR.1
PA7-18	Graphs	7.PR.1, 7.PR.2, [C], 8.PR.1, 8.PR.2
PA7-19	Sequences as Ordered Pairs	6.PR.2, 7.PR.2, [C, CN, R, V], 8.PR.1
PA7-20	Graphing Sequences	6.PR.2, 7.PR.2, [C, CN, R, V], 8.PR.1
PA7-21	Interpreting Linear Graphs	6.PR.2, 7.PR.2, [C], 8.PR.1

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
PA7-22	Graphing Formulas	7.PR.1, 7.PR.2, [C, R], 8.PR.1, 8.PR.2
PA7-23	Investigating Formulas and Rules	7.PR.1, 7.PR.2, [C, R], 8.PR.2
PA7-24	Direct Variation	7.PR.1, [C, R, V]
PA7-25	Predicting the Gap Between Terms in a Pattern	7.PR.1, [C, CN, R, V]
PA7-26	Matching Graphs and Formulas	7.PR.2, [C, R, V]
PA7-27	Using Graphs to Make Predictions	7.PR.2, [C, CN, R, PS]
PA7-28	Problems and Puzzles	7.PR.2, [C, CN, R, PS]
<b>Unit 5</b>	<b>Geometry</b>	
G7-13	Congruent Triangles	preparation for 7.SS.3, [CN, R, V]
G7-14	Congruency and Area	preparation for 7.SS.3, [C, R, T]
G7-15	Congruency Rules and Similarity	preparation for 7.SS.3, [C, R, V]
G7-16	Introduction to Constructions	6.SS.4, 7.SS.1, preparation for 7.SS.3, [PS, V, T]
G7-17	Constructing Triangles	6.SS.2, 6.SS.4, preparation for 7.SS.3, [C, R, T, V]
G7-18	Congruent Triangles Again	7.SS.3, [CN, R, V]
G7-19	The Isosceles Triangle Theorem	7.SS.3, [R, V, PS]
G7-20	Constructing Angle Bisectors	7.SS.3, [CN, R, V]
G7-21	Constructing Perpendicular Lines	7.SS.3, [CN, R, V]
G7-22	Constructing Parallel Lines	7.SS.3, [CN, R, V]
G7-23	Constructing Perpendicular Bisectors	7.SS.3, [C, CN, R, V]
G7-24	More Perpendicular and Parallel Lines	7.SS.3, [C, R, V]
<b>Unit 6</b>	<b>Number Sense</b>	
NS7-86	Gains and Losses	7.N.6, [R, C]
NS7-87	Integers	7.N.6, [R, C, CN, V]
NS7-88	Adding Integers	7.N.6, [R, CN]
NS7-89	Adding Integers on a Number Line	7.N.6, [R, CN]
NS7-90	Subtracting Integers on a Number Line	7.N.6, [R, CN, C, V, PS]
NS7-91	Subtraction Using a Thermometer	7.N.6, [C, CN, R, T, PS, V, ME]
NS7-92	Subtraction Using Distance Apart	7.N.6, [V, R, CN, C]
NS7-93	Subtraction Using Gains and Losses	7.N.6, [V, R, CN, C]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS7-94	Word Problems	7.N.6, [V, R, CN, C]
<b>Unit 7</b>	<b>Geometry</b>	
G7-25	Introduction to Coordinate Systems	6.SS.8, 7.SS.4, [CN, R, V]
G7-26	Coordinate Systems	7.SS.4, [C, CN, R, V]
G7-27	Horizontal and Vertical Distances	7.SS.5, [CN, C, R, V]
G7-28	Translations	7.SS.5, [C, R, V]
G7-29	Reflections	7.SS.5, [C, CN, R]
G7-30	Reflections — Advanced	7.SS.5, [C, CN, V]
G7-31	Rotations	7.SS.5, [CN, V]
G7-32	Rotations in the Coordinate Plane	7.SS.5, [C, CN, R]
G7-33	Transformations in the Cartesian Plane	7.SS.5, [C, R, V]
G7-34	Tessellations and Designs	6.SS.7, 7.SS.5, [C, CN, V], 8.SS.6
G7-35	Angles in Polygons and Tessellations	8.SS.6
G7-36	Similarity	9.SS.3
G7-37	Dilatations	9.SS.3
G7-38	Concepts in Transformations	9.SS.3
<b>Unit 8</b>	<b>Probability &amp; Data Management</b>	
PDM7-17	Theoretical Probability — Review	6.SS.4, 7.SP.4, [C, CN, R, V, T]
PDM7-18	Theoretical Probability	6.SS.4, 7.SP.4, [C, CN, R, V, T]
PDM7-19	Tree Diagrams	7.SP.5, [C, R]
PDM7-20	Counting Combinations	7.SP.5, [C, CN, R, V, T]
PDM7-21	Compound Events	7.SP.5, 7.SP.6, [C, R]
PDM7-22	Expectation	7.SP.6, [C, CN, R]
PDM7-23	Applications of Probability	7.SP.6, [C, CN, R]

# JUMP Math–Manitoba Curriculum Correlations: Grade 8

Lesson Number	JUMP Math Lesson Title	Manitoba Mathematics Outcome(s)
<b>Grade 8 Part 1</b>		
<b>Unit 1</b>	<b>Number Sense</b>	
NS8-1	Factors and Multiples	6.N.3, preparation for 8.N.1, [R, C]
NS8-2	LCMs and GCFs	6.N.3, preparation for 8.N.6, [C, PS, R]
NS8-3	Prime Numbers	6.N.3, preparation for 8.N.1, [R, C, CN, V]
NS8-4	Prime Factorizations	6.N.3
NS8-5	Prime Factorizations and GCFs	6.N.3
NS8-6	Prime Factorizations and LCMs	6.N.3
NS8-7	Order of Operations	6.N.9
NS8-8	Fractions	6.N.4
NS8-9	Mixed Numbers	6.N.4
NS8-10	Improper Fractions	6.N.4
NS8-11	Mixed and Improper Fractions	6.N.4
NS8-12	More Mixed Numbers	6.N.4
NS8-13	More Mixed Numbers and Improper Fractions	6.N.4
NS8-14	Comparing Fractions — Introduction	6.N.4
NS8-15	Equivalent Fractions	7.N.5
NS8-16	Comparing Fractions Using Equivalent Fractions	7.N.5
NS8-17	Adding and Subtracting Fractions — Introduction	7.N.5
NS8-18	Adding and Subtracting Fractions	7.N.5
NS8-19	Adding and Subtracting Mixed Numbers	7.N.5
NS8-20	Mental Math	7.N.5
NS8-21	Investigating Fractions and Division — Advanced	7.N.5
NS8-22	Word Problems with Adding and Subtracting Fractions	7.N.5
NS8-23	Fractions of Whole Numbers	8.N.6, [V, R, CN, C]
NS8-24	Multiplying Fractions by Whole Numbers	8.N.6, [R, ME, CN, C]
NS8-25	Multiplying Fractions by Fractions	8.N.6, [C, R]
NS8-26	Dividing Fractions by Whole Numbers	8.N.6, [V, R, ME, C]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS8-27	Dividing Whole Numbers by Fractions	8.N.6, [CN, R, C]
NS8-28	Operations with Fractions	8.N.6, [ME, C]
NS8-29	Dividing Fractions by Fractions	8.N.6, [R, CN, C]
NS8-30	Estimating Quotients of Fractions	8.N.6, [ME, R, V, C]
NS8-31	Word Problems	8.N.6, [PS, R, C]
NS8-32	Word Problems — Advanced	8.N.6, [PS, R, C]
NS8-33	Concepts in Fractions	8.N.6, [CN, ME, PS, C]
NS8-34	Decimal Fractions	7.N.2
NS8-35	Place Value and Decimals	7.N.2
NS8-36	Decimals, Money, and Measurements	7.N.2
NS8-37	Decimals and Fractions Greater Than 1	7.N.4
NS8-38	Comparing and Ordering Tenths and Hundredths	7.N.7
NS8-39	Ordering Decimals and Fractions to Thousandths	7.N.7
NS8-40	Regrouping Decimals	7.N.2
NS8-41	Addition Strategies for Decimals	7.N.2
NS8-42	Adding and Subtracting Decimals	7.N.2
NS8-43	Rounding Review	7.N.2
NS8-44	Rounding Decimals	7.N.2
NS8-45	Estimating Decimal Sums and Differences	7.N.2
NS8-46	Multiplying Decimals by 10	6.N.8, 7.N.2
NS8-47	Multiplying Decimals by 100 and 1 000	6.N.8, 7.N.2
NS8-48	Dividing Decimals by 10 and 100	6.N.8, 7.N.2
NS8-49	Multiplying and Dividing by Powers of 10	6.N.8, 7.N.2
NS8-50	Multiplying Decimals by Whole Numbers	6.N.8, 7.N.2, preparation for 8.N.3, [ME, CN, PS, V]
NS8-51	Multiplying Decimals by 0.1, 0.01, and 0.001	7.N.2, preparation for 8.N.3, [ME, PS, C, R, T, CN]
NS8-52	Multiplying Decimals by Decimals	7.N.2, preparation for 8.N.3, [ME, PS, C, R, T, CN]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS8-53	Multiplying Decimals by 2- and 3-Digit Decimals	7.N.2, preparation for 8.N.3, [ME, PS, R, C, CN, V]
NS8-54	Long Division — 3- and 4-Digit by 1-Digit	6.N.8, 7.N.2
NS8-55	Dividing Decimals by Whole Numbers	6.N.8, 7.N.2
NS8-56	Dividing Decimals by Decimals	7.N.2
NS8-57	Decimals Review	7.N.2, 7.N.7
<b>Unit 2</b>	<b>Patterns &amp; Algebra</b>	
PA8-1	Extending Patterns	preparation for 7.PR.1
PA8-2	Describing Patterns	preparation for 7.PR.1
PA8-3	T-tables	preparation for 7.PR.1
PA8-4	Patterns (Advanced)	preparation for 7.PR.1
PA8-5	Variables	7.PR.5
PA8-6	Substituting Fractions and Decimals for Variables	preparation for 8.PR.2, [CN, C]
PA8-7	Solving Equations — Guess and Check	8.PR.2, [R, C]
PA8-8	Solving Equations — Preserving Equality	8.PR.2, [R, C]
PA8-9	Solving Equations — Two Operations	8.PR.2, [R, PS, C, CN]
PA8-10	Solving Equations — Advanced	8.PR.2, [R, PS, C, CN]
PA8-11	Modelling Equations	7.PR.3, 7.PR.6, 7.PR.7, 8.PR.2, [V, PS, C]
PA8-12	Counter-examples	N/A
PA8-13	Exploring Preservation of Equality	8.PR.2, [CN, R, C]
PA8-14	Correcting Mistakes	8.PR.2, [R, C]
PA8-15	Word Problems	7.PR.7, 8.PR.2, [C, CN, PS, R]
<b>Unit 3</b>	<b>Number Sense</b>	
NS8-58	Perfect Squares	8.N.1, [R, C], 9.N.5
NS8-59	Factors of Perfect Squares	8.N.1, [R, C, CN], 9.N.5
NS8-60	Square Roots of Perfect Squares	8.N.1, [R, C, CN], 9.N.5
NS8-61	Prime Factorizations of Perfect Squares	8.N.1, [R, PS, T], 9.N.5
NS8-62	Square Roots of Non-Perfect Squares	8.N.2, [R, V, C], 9.N.6
NS8-63	Estimating Square Roots	8.N.2, [R, ME, T, V, CN, C], 9.N.5, 9.N.6

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
<b>Unit 4</b>	<b>Probability &amp; Data Management</b>	
PDM8-1	Bar Graphs	6.SP.1, 8.S.P1, [C, CN, T]
PDM8-2	Double Bar Graphs	6.SP.1, 8.S.P1, [T, CN, C]
PDM8-3	Line Graphs	6.SP.1, 6.SP.3, 8.S.P1, [C, CN, R, T]
PDM8-4	Investigating Line Graphs	6.SP.1, 6.SP.3
PDM8-5	Comparing Line Graphs	6.SP.1, 8.S.P1, [C, CN, R, T]
<b>Unit 5</b>	<b>Geometry</b>	
G8-1	Area of Triangles	7.SS.2
G8-2	Squares on a Grid	6.SS.6
G8-3	Length of Slant Line Segments	7.SS.2, 8.N.1, [CN, C, R, V]
G8-4	The Pythagorean Theorem	8.SS.1, [CN, PS, R, V]
G8-5	Proving the Pythagorean Theorem	8.SS.1, [C, CN, R, V]
G8-6	Problem-Solving — Using a Formula	8.SS.1, [C, CN, R, V]
G8-7	Using the Pythagorean Theorem	8.SS.1, [C, CN, PS, R, V]
<b>Unit 6</b>	<b>Measurement</b>	
ME8-1	Part-to-Part and Part-to-Whole Ratios	6.N.5
ME8-2	Equivalent Ratios	6.N.5, [R, C] 8N4
ME8-3	Solving Proportions	6.N.5, [R, C, CN, V], 8.N.4, 8.N.5
ME8-4	Word Problems	6.N.5, [R, C, CN, V], 8.N.4, 8.N.5
ME8-5	Circles	7.SS.1, 8.SS.1 [C, CN, R, ME, V]
ME8-6	Circumference	7.SS.1
ME8-7	Area of Circles	7.SS.2
ME8-8	Area, Circumference, and Perimeter	7.SS.2, 8.SS.1 [C, CN, R]
<b>Unit 7</b>	<b>Number Sense</b>	
NS8-64	Gains and Losses	preparation for 7.N.6, 8.N.7, [R, C]
NS8-65	Integers	preparation for 7.N.6, 8.N.7, [R, C, CN, V]
NS8-66	Adding Integers	preparation for 7.N.6, 8.N.7, [R, CN]
NS8-67	Adding Integers on a Number Line	preparation for 7.N.6, 8.N.7, [R, CN]
NS8-68	Subtracting Integers	7.N.6, preparation for 8.N.7, [R, CN, V, PS, C]
NS8-69	Subtraction Using a Thermometer	7.N.6, preparation for 8.N.7, [C, CN, R, T, PS, V, ME]
NS8-70	More Gains and Losses	7.N.6, preparation for 8.N.7, [V, C]
NS8-71	Word Problems	7.N.6, 8.N.7, [V, C]



<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS8-72	Multiplying Integers	8.N.7, [R, C]
NS8-73	Dividing Integers	8.N.7, [R, CN, C, PS]
NS8-74	Concepts in Integers	8.N.7, [R, CN, C, PS]
<b>Unit 8</b>	<b>Geometry</b>	
G8-8	Introduction to Coordinate Systems	6.SS.8, 7.SS.4
G8-9	Translations	7.SS.5
G8-10	Translations — Advanced	7.SS.5
G8-11	Reflections	7.SS.5
G8-12	Reflections — Advanced	7.SS.5
G8-13	Rotations	7.SS.5
G8-14	Transformations — Advanced	7.SS.5
<b>Grade 8 Part 2</b>		
<b>Unit 1</b>	<b>Number Sense</b>	
NS8-75	Relating Fractions and Division	7.N.4, 8.N.5, [R, T, CN, C]
NS8-76	Repeating Decimals	7.N.4, 8.N.3, [R, CN, T, C]
NS8-77	Using Decimals to Compare Fractions	7.N.4, 7.N.7, 8.N.3, [R, ME, C, CN]
NS8-78	Is the Fraction a Terminating or Repeating Decimal?	7.N.4, 8.N.3, [CN, R, C, T]
NS8-79	Adding and Subtracting Repeating Decimals	7.N.4, 8.N.3, [C, R, CN]
NS8-80	Writing Repeating Decimals as Fractions	7.N.4, 8.N.3, [R, CN, T]
NS8-81	Writing Repeating Decimals as Fractions (Advanced)	7.N.4, 8.N.3, [R, CN, T]
NS8-82	Percents	7.N.3
NS8-83	Adding and Subtracting Percents	7.N.3, 8.N.3, [R, CN, C, V]
NS8-84	Tenths, Decimals, and Percents	7.N.3, 8.N.3, [R, CN, C, V]
NS8-85	Fractions and Percents	8.N.3, 8.N.5, [CN, R, ME, C]
NS8-86	Visual Representations of Percents	7.N.3, 7.N.7, 8.N.3, 8.N.5, [CN, C, R, V]
NS8-87	Comparing Fractions, Decimals, and Percents	7.N.3, 7.N.7, 8.N.3, 8.N.5, [CN, C, R, V]
NS8-88	Finding Percents	7.N.3, 8.N.3, [V, ME, R, CN, C]
NS8-89	Further Percents	7.N.3, 8.N.3, [CN, R, ME, C]
NS8-90	Writing Equivalent Statements for Proportions	7.N.3, 8.N.3, [R, CN]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
NS8-91	Using Proportions to Solve Percent Problems	7.N.3, 8.N.3, [CN, C, R]
NS8-92	Solving Percent Problems — Advanced	8.N.3, [CN, R, ME, C]
NS8-93	Percents Less Than 1%	8.N.3, [R, V, C]
NS8-94	Percents Greater Than 100%	8.N.3, [R, CN, V, C, T, ME]
NS8-95	Percent Problems	8.N.3, [R, CN, V, C, T, ME]
NS8-96	Relating Fractions, Ratios, and Percents	7.N.3, 8.N.3, [PS, R, C, CN]
NS8-97	Finding the Whole from the Part	7.N.3, 8.N.3, [V, R, PS, C]
NS8-98	Further Percent Problems	8.N.3, [CN, R, V, C]
NS8-99	Word Problems	8.N.3, [CN, R, V, C]
NS8-100	Three-Term Ratios	8.N.4, [R, V, CN, C]
NS8-101	Rates	6.N.5, 8.N.4, 8.N.5, [R, CN, C]
NS8-102	Using Unit Rates	6.N.5, 8.N.4, 8.N.5, [R, CN, C]
NS8-103	Ratio and Rates with Fractional Terms	8.N.4, 8.N.5, [R, CN, PS, T, C]
<b>Unit 2</b>	<b>Probability &amp; Data Management</b>	
PDM8-6	Relative Frequency Tables	7.SP.3, preparation for 8.SP.1, [R, V, C]
PDM8-7	Circle Graphs	7.SP.3, 8.SP.1, [R, V, CN, C]
PDM8-8	Drawing Circle Graphs	7.SP.3, [R, CN, T, C], preparation for 8.SP.1
PDM8-9	Reading Circle Graphs	7.SP.3, 8.SP.1, [R, ME, T, CN, C]
PDM8-10	Scatter Plots	8.SP.1, [R, ME, T, CN, C]
PDM8-11	Comparing Scatter Plots and Line Graphs	8.SP.1, [R, ME, T, CN, C]
PDM8-12	Histograms	N/A
PDM8-13	Drawing Histograms	N/A
PDM8-14	Comparing Graphs	8.SP.1, [R, ME, T, CN, C]
<b>Unit 3</b>	<b>Geometry</b>	
G8-15	Points and Lines	7.SS.3
G8-16	Angles and Shapes	6.SS.1
G8-17	Measuring and Drawing Angles	6.SS.1
G8-18	Making a Sketch	6.SS.1
G8-19	Perpendicular Lines	6.SS.1, 7.SS.3
G8-20	Supplementary and Opposite Angles	N/A

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G8-21	Parallel Lines	7.SS.3
G8-22	Corresponding Angles and Parallel Lines	7.SS.3
G8-23	Alternate Angles and Parallel Lines	7.SS.3
G8-24	Angles and Triangles	7.SS.3
G8-25	Properties of Triangles	6.SS.4
G8-26	Solving Problems Using Angle Properties	7.SS.3
G8-27	Special Quadrilaterals	7.SS.3
G8-28	Properties of Quadrilaterals	7.SS.3
G8-29	Perpendiculars and Bisectors	6.SS.1, 7.SS.3
G8-30	Congruent Triangles	9.SS.9
G8-31	Congruence Rules	9.SS.9
G8-32	Triangles and Quadrilaterals	9.SS.9
G8-33	Triangles and Circles	9.SS.1
G8-34	Similarity	9.SS.3
G8-35	Similar Triangles	9.SS.3
G8-36	Properties of Similar Shapes	9.SS.3, 9.SS.4
<b>Unit 4</b>	<b>Patterns &amp; Algebra</b>	
PA8-16	Substituting Integers for Variables	8.PR.2, [C, CN, R]
PA8-17	Solving Equations — Guess and Check	8.PR.1, 8.PR.2, [C, CN, R]
PA8-18	Solving Equations	8.PR.2, [C, CN, R]
PA8-19	Concepts in Equations	8.PR.2, [C, CN, R, V]
PA8-20	Formulas	7.PR.1, 7.PR.2, 8.PR.1, [C, R, PS]
PA8-21	Formulas for Patterns	7.PR.1, 8.PR.2, [C, R, V]
PA8-22	Formulas for Patterns — Advanced	7.PR.1, 8.PR.2, [C, R, V]
PA8-23	Stepwise Rules	N/A
PA8-24	Finding Rules and Formulas	7.PR.1, 8.PR.2, [C, CN, R, V]
PA8-25	Graphs	7.PR.2, 8.PR.1, 8.PR.2, [R]
PA8-26	Sequences and Ordered Pairs	7.PR.2, 8.PR.1, [C, CN, R, V]
PA8-27	Graphing Sequences	7.PR.2, 8.PR.1, [C, CN, R, V]
PA8-28	Graphing Formulas	7.PR.1, 7.PR.2, 8.PR.1, 8.PR.2, [C, CN, R, PS, V]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
PA8-29	Investigating Patterns	7.PR.1, 7.PR.2, 8.PR.1, 8.PR.2, [C, CN, R, PS, V]
PA8-30	Problems and Puzzles	7.PR.1, 7.PR.2, 8.PR.1, 8.PR.2, [C, CN, R, PS, V]
PA8-31	Investigating Equations — Advanced	6.PA.3, preparation for 8.PR.2, [C, R, PS]
PA8-32	Advanced Algebra	6.PA.3, 8.PR.2, [R]
<b>Unit 5</b>	<b>Number Sense</b>	
NS-104	Introduction to Powers	9.N.1, 9.N.2
NS-105	Investigating Powers	9.N.1, 9.N.2
NS-106	Powers and Expanded Form	9.N.1, 9.N.2
NS-107	Powers of Negative Numbers	9.N.1, 9.N.2, 9.N.4
NS-108	Exponents, Integers, and Order of Operations	9.N.1, 9.N.2, 9.N.4
NS-109	Concepts in Powers	9.N.1, 9.N.2
NS-110	Negative Fractions and Decimals	9.N.3
<b>Unit 6</b>	<b>Measurement</b>	
ME8-9	Right Prisms	6.SS.3, preparation for 8.SS.2, [C, CN, V]
ME8-10	Nets of Right Prisms	8.SS.2, 8.SS.3, [C, R, V]
ME8-11	Volume of Rectangular Prisms	6.SS.3, 8.SS.4, [C, CN]
ME8-12	Volume of Polygonal Prisms	8.SS.4, [C, R, V]
ME8-13	Volume of Cylinders	8.SS.4, [C, R, V]
ME8-14	Capacity	8.SS.4, [C, R, V]
ME8-15	Changing Units of Area and Volume	7.N.2, 8.SS.4, [C, CN, R]
ME8-16	Surface Area of Prisms	8.SS.2, 8.SS.3, [C, R, PS], 9.SS.2
ME8-17	Surface Area of Cylinders	8.SS.2, 8.SS.3, [C, CN, R, V, ME, PS], 9.SS.2
ME8-18	Surface Area and Volume	8.SS.2, 8.SS.3, 8.SS.4 [C, R, T, V, PS], 9.SS.2
<b>Unit 7</b>	<b>Geometry</b>	
G8-37	Euler's Formula	N/A
G8-38	Tessellations and Transformations	8.SS.6, [C, R]
G8-39	Angles in Polygons and Tessellations	8.SS.6, [C, CN, V]
G8-40	Tessellating Polygons	8.SS.6, [C, CN, V]
G8-41	Creating Tessellating Shapes	8.SS.6, [C, CN, V]
G8-42	3-D Drawings, Top and Front Views	8.SS.5, [V]

<b>Lesson Number</b>	<b>JUMP Math Lesson Title</b>	<b>Manitoba Mathematics Outcome(s)</b>
G8-43	Side Views	8.SS.5, [V]
G8-44	Side Views of Structures Built from Prisms	8.SS.5, [C, CN, V]
G8-45	Building Structures from Side Views	8.SS.5, [CN, R, V]
G8-46	Rotating Structures	8.SS.5, [C, R, V]
<b>Unit 8</b>	<b>Probability &amp; Data Management</b>	
PDM8-15	Mean, Median, Mode, and Range	7.SP.1
PDM8-16	Understanding Mean, Median, Mode, and Range	7.SP.1
PDM8-17	Using the Mean, Median, Mode, and Range	7.SP.1
PDM8-18	Theoretical Probability — Review	6.SS.4, 7.SP.4
PDM8-19	Theoretical Probability	6.SS.4, 7.SP.4
PDM8-20	Tree Diagrams	7.SP.5
PDM8-21	Counting Combinations	7.SP.5
PDM8-22	Compound Events	7.SP.5, 7.SP.6, 8.SP.2, [C, R]
PDM8-23	Concepts in Probability	7.SP.5, 7.SP.6, 8.SP.2, [C, R]
PDM8-24	Experimental Probability	7.SP.6, 8.SP.2, [C, CN, R]
PDM8-25	Complementary Events	N/A
PDM8-26	Samples and Sample Sizes	9.SP.1
PDM8-27	Bias in a Survey	9.SP.1
PDM8-28	Surveys and Experiments	9.SP.1