Mathseeds Lessons and Ontario Curriculum

KINDERGARTEN

Overall Expectations As children progress through the Kindergarten program, they:	Codes	Mathseeds Lesson #			Additional Mathseeds Resources	
		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
		Online Lesson and Printable Resources	End-of-lesson Quiz	Critical Thinking and Problem Solving Worksheets	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
demonstrate an understanding of numbers, using concrete materials to explore and investigate counting, quantity, and number relationships.	OE15	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 22, 24, 25, 28, 30, 31, 32, 33, 34, 36, 40, 41, 43, 45, 46, 47, 48, 49, 50			**DT** Early Number 1—10	**Kindergarten Number** Tests 1—4 **Kindergarten Operations** Tests 1—4
measure, using non-standard units of the same size, and compare objects, materials, and spaces in terms of their length, mass, capacity, area, and temperature, and explore ways of measuring the passage of time, through inquiry and play-based learning.	OE16	13, 26, 29, 38, 39, 42			**DT** Early Measurement 1—20	**Kindergarten Measurement** Tests 1—5
describe, sort, classify, build, and compare two-dimensional shapes and three-dimensional figures, and describe the location and movement of objects through investigation.	OE17	4, 6, 9, 15, 23, 35, 44			**DT** Early Geometry 1—11, 13—23	**Kindergarten Geometry** Tests 1—5
recognize, explore, describe, and compare patterns, and extend, translate, and create them, using the core of a pattern and predicting what comes next.	OE18	8, 27, 37			**DT** Early Patterns 1—9	
collect, organize, display, and interpret data to solve problems and to communicate information, and explore the concept of probability in everyday contexts.	OE19				**DT** Early Data 1—10	**Kindergarten Data** Tests 1—2

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GRADE 1

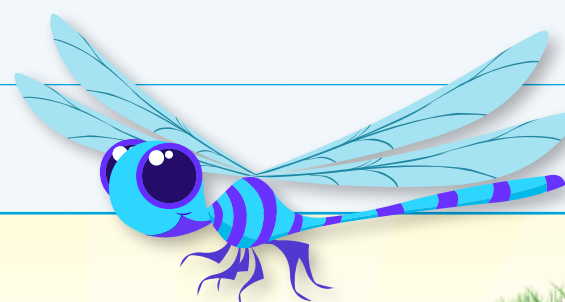|		Mathseeds Lesson #			Additional Mathseeds Resources	
		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Strands	**Overall Expectations** By the end of Grade 1, students will:	**Online Lesson and Printable Resources**	**End-of-lesson Quiz**	**Critical Thinking and Problem Solving Worksheets**	**Driving Tests (DT) Mental Minute (MM)**	**Printable Achievement Standards Assessment**
Number Sense and Numeration	read, represent, compare, and order whole numbers to 50; count forward to 100 and backwards from 20;	56, 60, 63, 67, 75, 77, 79, 81, 86, 88, 90			**DT** Early Number 11–23 **DT** Grade 1 Number 1–10	**Grade 1 Number and Algebra: Whole Numbers** Tests 1–7
	investigate fractions;	61, 66			**DT** Grade 1 Patterns and Fractions 3, 5, 6, 11, 13, 14	**Grade 1 Number and Algebra: Fractions and Money** Tests 1 & 2
	investigate money amounts;	64, 83, 92			**DT** Grade 1 Measurement 3, 5, 6, 12	**Grade 1 Number and Algebra: Fractions and Money** Tests 3–7
	solve problems involving the addition and subtraction of single-digit whole numbers, using a variety of strategies.	51, 53, 58, 65, 68, 72, 85, 91, 93, 100			**DT** Early Operations 1–25 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 1 Number and Algebra: Operation**s Tests 1–5
Measurement	estimate, measure, and describe length, area, mass, and capacity using non-standard units of the same size; compare, describe, and order objects, using length, area, mass, and capacity;	55, 59, 73, 84, 89			**DT** Grade 1 Measurement 2, 4, 11, 13, 14, 17–19	**Grade 1 Measurement: Length** Tests 1–5
	estimate, measure, and describe time using non-standard units of the same size.	54, 70, 87			**DT** Grade 1 Measurement 1, 8–10, 15, 16	**Grade 1 Measurement: Time** Tests 1–5
Geometry and Spatial Sense	identify common two-dimensional shapes and sort and classify them by their attributes; identify common three-dimensional figures and sort and classify them by their attributes; compose and decompose common two-dimensional shapes and three-dimensional figures;	52, 62, 69, 99			**DT** Grade 1 Geometry 1–3, 6–10, 13, 17–19	
	describe the relative locations of objects using positional language.	57, 78, 94			**DT** Grade 1 Geometry 4, 5, 11, 12, 14–16	
Patterning and Algebra	identify, describe, extend, and create repeating patterns;				**DT** Grade 1 Patterns and Fractions 1, 2, 4	
	demonstrate an understanding of the concept of equality, using concrete materials and addition and subtraction to 10.	76				
Data Management and Probability	collect and organize data; display data using concrete graphs and pictographs; read and describe data in concrete graphs and pictographs;	80, 97			**DT** Grade 1 Data 1–4, 6, 9, 10, 12–16	**Grade 1 Statistics: Data** Tests 1–4
	describe the likelihood that everyday events will happen.	82			**DT** Grade 1 Data 5, 7, 8, 11	

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GRADE 2

Strands	Overall Expectations By the end of Grade 2, students will:	Mathseeds Lesson #			Additional Mathseeds Resources	
		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
		Online Lesson and Printable Resources	End-of-lesson Quiz	Critical Thinking and Problem Solving Worksheets	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
Number Sense and Numeration	read, represent, compare, and order whole numbers to 100; count forward to 200 and backwards from 50, using multiples of various numbers as starting points;	101, 108, 117, 122, 129			**DT** Grade 1 Number 11—22	**Grade 2 Number and Algebra: Numbers to 1000** Tests 1—3
	represent fractions;	132, 138			**DT** Grade 2 Patterns and Fractions 5, 11, 12, 14—17	**Grade 2 Number and Algebra: Fractions and Money** Tests 1—3
	represent money amounts to 100¢;	125, 147			**DT** Grade 2 Measurement 12	**Grade 2 Number and Algebra: Fractions and Money** Tests 4—7
	solve problems involving the addition and subtraction of one- and two-digit whole numbers, using a variety of strategies;	95, 96, 98, 103, 110, 118, 120, 124, 128, 131, 137, 139, 142, 150			**DT** Grade 1 Operations 1—20 **DT** Grade 2 Operations 1—5, 7, 13—17 **MM** Addition Sprints **MM** Subtraction Sprints	**Grade 2 Number and Algebra: Addition and Subtraction** Tests 1—6
	investigate multiplication and division.	71, 74, 111, 113, 115, 130, 136			**MM** Multiplication Sprints **MM** Division Sprints	**Grade 2 Number and Algebra: Equal Groups** Tests 1—5
Measurement	estimate, measure, and record length, mass, and capacity using non-standard units and standard units; compare, describe, and order objects, using length, mass, and capacity;	104, 116, 126, 135, 141			**DT** Grade 2 Measurement 6, 8, 9, 11, 13, 15, 17—19, 21—24	**Grade 2 Measurement: Length** Tests 1—8
	estimate, measure, and record area using non-standard units and standard units; compare, describe, and order objects, using area;	112, 149			**DT** Grade 2 Measurement 6	
	estimate, measure, and record time using non-standard units and standard units.	109, 114, 123, 127			**DT** Grade 2 Measurement 1—5, 7, 10, 14, 16, 20	**Grade 2 Measurement: Time** Tests 1—7
Geometry and Spatial Sense	identify two-dimensional shapes and sort and classify them by their geometric properties; identify three-dimensional figures and sort and classify them by their geometric properties;	119, 121, 145			**DT** Grade 2 Geometry 3—7, 10	**Grade 2 Geometry: Shapes** Tests 1—5
	describe and represent the relative locations of objects, and represent objects on a map.				**DT** Grade 2 Geometry 2, 8, 11, 13	
Patterning and Algebra	identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns;	102, 133			**DT** Grade 2 Patterns and Fractions 1—4, 6—10, 13	**Grade 2 Number and Algebra: Number Patterns** Tests 1—3
Data Management and Probability	collect, organize and display data, and read and describe data, using tally charts, concrete graphs, pictographs, line plots, simple bar graphs, and other graphic organizers;	143			**DT** Grade 2 Data 1, 4, 5, 7—14	**Grade 2 Statistics: Data** Tests 1—5
	describe probability in everyday situations and simple games.	107			**DT** Grade 2 Data 2, 3, 6	

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GRADE 3

Strands	Overall Expectations By the end of Grade 3, students will:	Knowledge and Skills Online Lesson and Printable Resources	Assessment End-of-lesson Quiz	Higher Order Thinking Skills Critical Thinking and Problem Solving Worksheets	Fluency Driving Tests (DT) Mental Minute (MM)
Number Sense and Numeration	read, represent, compare, and order whole numbers to 1000;	105, 106, 166, 194			**DT** Grade 2 Number 1–24
	represent fractions;	160, 175, 180, 191, 197			
	represent money amounts to $10;	159			
	solve problems involving the addition and subtraction of single- and multi-digit whole numbers, using a variety of strategies;	134, 144, 146, 148, 170, 173, 178, 183, 188			**DT** Grade 2 Operations 18, 20–28 **MM** Addition Sprints **MM** Subtraction Sprints
	demonstrate an understanding of multiplication and division.	155, 158, 165, 168, 171, 176, 181, 186, 190, 193, 196, 199			**MM** Multiplication Sprints **MM** Division Sprints
Measurement	estimate, measure, and record length, perimeter, and area using standard units; compare, describe, and order objects, using length, perimeter, and area;	157, 182, 192, 198, 200			
	estimate, measure, and record mass, and capacity using standard units; compare, describe, and order objects, using mass, and capacity;	154, 172			
	estimate, measure, and record time using standard units.	162, 179, 185, 189			
Geometry and Spatial Sense	compare two-dimensional shapes and sort them by their geometric properties; describe relationships between two-dimensional shapes; compare three-dimensional figures and sort them by their geometric properties; describe relationships between two-dimensional shapes and three-dimensional figures;	169, 184			
	identify and describe the locations and movements of shapes and objects.	164			
Patterning and Algebra	describe, extend, and create a variety of numeric patterns and geometric patterns;	153, 195			
	demonstrate an understanding of equality between pairs of expressions, using addition and subtraction of one- and two-digit numbers.	163			
Data Management and Probability	collect, organize and display data using charts and graphs, including vertical and horizontal bar graphs; read, describe, and interpret primary data presented in charts and graphs, including vertical and horizontal bar graphs;	174, 187, 198			
	predict and investigate the frequency of a specific outcome in a simple probability experiment.	167			