

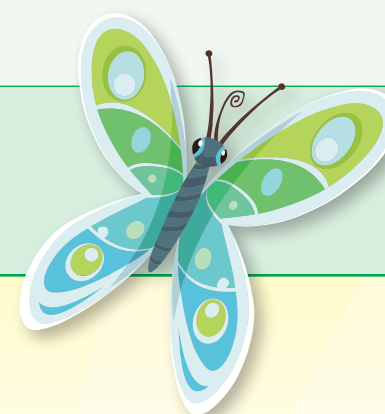


Mathseeds Lessons and the British Columbia Mathematics Curriculum



KINDERGARTEN

		Mathseeds Lesson #			Additional Mathseeds Resources	
Big Ideas	Content Children are expected to know the following:	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)	Assessment Printable Achievement Standards Assessment
Numbers represent quantities that can be decomposed into smaller parts.	number concepts to 10	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 22, 25, 28, 31, 33			DT Early Number 1–10, 24, 25	Kindergarten Number Tests 2, 3
One-to-one correspondence and a sense of 5 and 10 are essential for fluency with numbers.	ways to make 5; decomposition of numbers to 10; change in quantity to 10, using concrete materials	24, 30, 32, 34, 36, 40, 47, 49			DT Early Operations 1–14, 16–19, 22–25 MM Addition Sprints MM Subtraction Sprints	Kindergarten Operations Tests 1–4
Repeating elements in patterns can be identified.	repeating patterns with two or three elements	8, 27, 37			DT Early Patterns 1–9	
Objects have attributes that can be described, measured, and compared.	direct comparative measurement (e.g., linear, mass, capacity)	13, 26, 29, 38			DT Early Measurement 2, 3, 5–12, 15, 16, 20	Kindergarten Measurement Tests 1–5
	single attributes of 2D shapes and 3D objects	4, 6, 9, 15, 23, 35, 44			DT Early Geometry 1–8, 15–23	Kindergarten Geometry Tests 1–3
	financial literacy – attributes of coins, and financial role-play	64				Kindergarten Number Test 5
Concrete graphs help us to compare and interpret data and show one-to-one correspondence.	concrete or pictorial graphs as a visual tool				DT Early Data 1–10	Kindergarten Data Tests 1–2



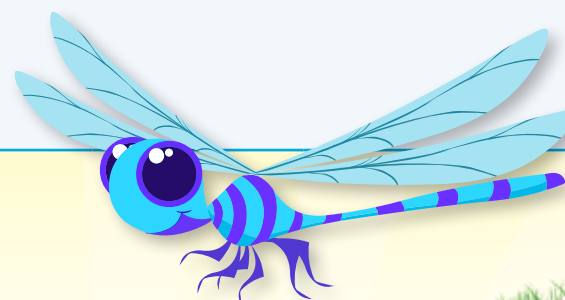


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GRADE 1

		Mathseeds Lesson #			Additional Mathseeds Resources	
		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Big Ideas	Content Children are expected to know the following:	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
Numbers to 20 represent quantities that can be decomposed into 10s and 1s.	number concepts to 20	41, 43, 45, 46, 48, 50, 56, 63			DT Early Number 11–20	Kindergarten Number Test 4
	ways to make 10	51, 53			DT Grade 1 Operations 1–3	
	addition and subtraction to 20 (understanding of operation and process); change in quantity to 20, concretely and verbally	58, 65, 68, 72, 85, 91, 93			DT Grade 1 Operations 4–12 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Tests 1–3
Repeating elements in patterns can be identified.	meaning of equality and inequality	76				
	repeating patterns with multiple elements and attributes				DT Grade 1 Patterns and Fractions 1, 2, 4	
	direct measurement with non-standard units (non-uniform and uniform)	54, 55, 59, 70, 73, 84, 87, 89			DT Grade 1 Measurement 2, 4, 11, 13, 14, 17–19	Grade 1 Measurement: Length Tests 1–5
Objects and shapes have attributes that can be described, measured, and compared.	comparison of 2D shapes and 3D objects	52, 62, 69, 99			DT Grade 1 Geometry 1–3, 6–10, 17–19	Grade 1 Geometry: Shape Tests 1–7
	financial literacy – values of coins, and monetary exchanges	83, 92			DT Grade 1 Measurement 3, 5–7, 12	Grade 1 Number and Algebra: Fractions and Money Tests 3–7
Concrete graphs help us to compare and interpret data and show one-to-one correspondence.	concrete graphs, using one-to-one correspondence	80, 97			DT Grade 1 Data 1–4, 6, 9, 10, 12–16	Grade 1 Statistics: Data Tests 1–5
	likelihood of familiar life events, using comparative language	82			DT Grade 1 Data 5, 7, 8, 11	





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GRADE 2

		Mathseeds Lesson #			Additional Mathseeds Resources	
		Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Big Ideas	Content Children are expected to know the following:	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
Numbers to 100 represent quantities that can be decomposed into 10s and 1s.	number concepts to 100, benchmarks of 25, 50, and 100 and personal referents	60, 67, 75, 81, 86, 88, 108, 122, 129			DT Grade 1 Number 1–24	Grade 1 Number and Algebra: Whole Numbers Tests 1–9 Grade 1 Number and Algebra: Place Value Tests 1–6
Development of computational fluency in addition and subtraction with numbers to 100 requires an understanding of place value.	addition and subtraction facts to 20 (introduction of computational strategies); addition and subtraction to 100; change in quantity, using pictorial and symbolic representation	95, 96, 98, 100, 103, 110, 118, 120, 124, 131, 137, 139, 142, 150			DT Grade 2 Operations 1–5, 7, 13–17, 20, 22, 23 MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Tests 1–6
The regular change in increasing patterns can be identified and used to make generalizations.	repeating and increasing patterns	77, 79, 90, 117, 133			DT Grade 2 Patterns and Fractions 1–3, 7–9	Grade 2 Number and Algebra: Number Patterns Tests 1–3
Objects and shapes have attributes that can be described, measured, and compared.	direct linear measurement, introducing standard metric units	104, 126, 141, 143			DT Grade 2 Measurement 6, 9, 11, 13, 15, 19, 21–24	Grade 2 Measurement: Length Tests 1–8
	multiple attributes of 2D shapes and 3D objects	102, 112, 119, 121, 145, 149			DT Grade 2 Geometry 3–7, 10	Grade 2 Geometry: Shapes Tests 1–5
	financial literacy – coin combinations to 100 cents, and spending and saving	125, 147			DT Grade 2 Measurement 12	Grade 2 Number and Algebra: Fractions and Money Tests 4–7
Concrete items can be represented, compared, and interpreted pictorially in graphs .	pictorial representation of concrete graphs, using one-to-one correspondence	143			DT Grade 2 Data 1, 4, 5, 7–14	Grade 2 Statistics: Data Tests 1–5
	likelihood of familiar life events, using comparative language	107			DT Grade 2 Data 2, 3, 6	





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GRADE 3



		Mathseeds Lesson #			Additional Mathseeds Resources
Big Ideas	Content Children are expected to know the following:	Knowledge and Skills Online Lesson and Printable Resources	Assessment End-of-lesson Quiz	Higher Order Thinking Skills Critical Thinking and Problem Solving Worksheets	Fluency Mental Minute (MM)
Fractions are a type of number that can represent quantities.	number concepts to 1000	101, 105, 106, 151, 156, 161, 166, 194			
	fraction concepts	61, 66, 132, 138, 160, 175, 180, 191, 197			
Development of computational fluency in addition, subtraction, multiplication, and division of whole numbers requires flexible decomposing and composing.	addition and subtraction to 1000; addition and subtraction facts to 20 (emerging computational fluency); one-step addition and subtraction equations with an unknown number	128, 134, 144, 146, 148, 163, 170, 173, 178, 183, 188			MM Addition Sprints MM Subtraction Sprints
	multiplication and division concepts	71, 74, 111, 113, 115, 130, 136, 155, 158, 165, 168, 171, 176, 181, 186, 190, 193, 196, 199			MM Multiplication Sprints MM Division Sprints
Regular increases and decreases in patterns can be identified and used to make generalizations.	increasing and decreasing patterns; pattern rules using words and numbers, based on concrete experiences	153, 195			
Standard units are used to describe, measure, and compare attributes of objects' shapes.	measurement, using standard units (linear, mass, and capacity)	116, 135, 154, 157, 172, 182, 192, 198, 200			
	time concepts	39, 42, 109, 114, 123, 127, 162, 179, 185, 189			
	construction of 3D shapes	169, 184			
	financial literacy – fluency with coins and bills to 100 dollars, and earning and payment	159			
The likelihood of possible outcomes can be examined, compared, and interpreted.	one-to-one correspondence with bar graphs, pictographs, charts, and tables	174, 187, 198			
	likelihood of simulated events, using comparative language	167			

