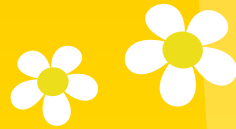




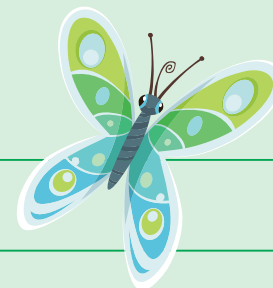
The Northern Ireland Curriculum Primary: Mathematics and Numeracy



YEAR 1



			Mathseeds Lesson #			Additional Mathseeds Resources	
Strand	Substrand	Pupils should be enabled to:	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
			Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
Number	Understanding Number	count a variety of objects; develop an understanding of one-to-one correspondence and that the size of a set is given by the last number in the count; investigate different ways of making sets for a given number within 5/10; match numerals to sets; order numerals and sets within 5/10; develop an understanding of conservation of number within 5/10; understand in counting activities that 'none' is represented by zero; explore the number that comes after, before, between a given number; carry out simple mental calculations; extend understanding of number beyond 10.	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 21, 22, 25, 28, 31, 33, 41, 43, 45, 46, 48, 50		43	DT Kindergarten Number 1-25	Kindergarten Number Test 3
	Counting and Number Recognition	count forwards in ones within 5/10 from different starting points; count backwards in ones within 5/10 from different starting points; extend counting in ones and recognition of numbers beyond 10; extend activities to including counting in 2s, 5s and 10s.	21, 25, 28				Kindergarten Number Test 1
		recognise numerals up to 5/10; state quantities within 5; make a sensible guess of quantities within 10; discover components of numbers within 5/10 by investigating different ways of partitioning sets into subsets partially; explore numbers relevant to their every day lives	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17, 18, 19, 20, 24, 30, 31, 32, 34, 36, 40		12, 19, 31, 34, 36, 43	DT Kindergarten Operations 2, 6, 9	Kindergarten Number Test 2
	Understanding Money	use money in various contexts; talk about things that they want to spend money on; understand the need to pay for goods; become familiar with coins in everyday use; talk about different ways we can pay for goods; use their number skills in shopping activities.					Kindergarten Number Test 5
Measures		compare two objects of different length; order three objects of different length; find an object of similar length; explore the notion of conservation of length; understand and use the language of comparison choose and use non-standard units to measure length.	26			DT Kindergarten 5, 6, 9, 10	Kindergarten Measurement Tests 1, 2
		compare two objects of different weight; order three objects of different weight; find an object of similar weight; explore the notion of conservation of weight; understand and use the language of comparison choose and use non-standard units to measure weight.	29			DT Kindergarten Measurement 7, 8, 12	Kindergarten Measurement Test 4
		compare two objects of different capacity; order three objects of different capacity; find an object of similar capacity; explore the notion of conservation of capacity; understand and use the language of comparison choose and use non-standard units to measure capacity.	38		38	DT Kindergarten Measurement 15, 16, 20	Kindergarten Measurement Test 5
		compare two objects of different area; order three objects of different area; find an object of similar area; understand and use the language of comparison.	13			DT Kindergarten Measurement 2, 3	Kindergarten Measurement Test 3
		sequence two or three familiar events; talk about significant times on the clock; compare two intervals of time in terms of longer/shorter time; choose and use non-standard units to measure time.	39, 42			DT Kindergarten Measurement 1, 4, 13, 14, 17-19	Kindergarten Measurement Tests 6, 7
Shape and Space		explore and talk about shapes in the environment; create pictures and patterns with 2D shapes; investigate and talk about the properties of shapes; sort collections of shapes in several ways and describe the arrangements; describe and name common 2-D shapes.	4, 6, 9, 15, 23			DT Kindergarten Geometry 1-8, 12, 19, 20	Kindergarten Geometry Tests 1, 3, 4
		explore and talk about shapes in the environment; build and make models with 3D shapes; investigate and talk about the properties of shapes; sort collections of shapes in several ways and describe the arrangements; describe and name common 3-D shapes.	35, 44			DT Kindergarten Geometry 15-23	Kindergarten Geometry Tests 2, 3
		explore body space through different types of movement; understand and use a range of positional words; explore movement using programmable devices; follow/give directions from/to a partner for simple movements.				DT Kindergarten Geometry 9-11, 13, 14	Kindergarten Geometry Tests 5, 6
Sorting		explore freely properties of a range of materials and one/two/three property collections; sort collections of random materials; sort for one criterion using one-property material; sort for one criterion using two-property collections; re-sort for the second criterion; sort for one criterion using three/four-property collections; find the various possibilities; partition sets into subsets in preparation for exploring components of number.				DT Kindergarten Data 1-10	Kindergarten Data Tests 1-2
Patterns and Relationships		investigate and talk about pattern in the environment; copy a simple pattern; continue a simple pattern; create patterns; explore pattern in number	27, 37		6, 8, 15, 23, 27, 37	DT Kindergarten Patterns 1-9	Kindergarten Number Test 6
		understand the concept of addition by combining sets of objects to find 'how many'; match objects in real contexts; compare sets by matching objects/counting objects to understand the terms 'more than' 'less than' 'the same'; investigate the relationship between addition and subtraction in practical situations.	22, 24, 30, 31, 32, 34, 36, 40, 47, 49		30, 40, 41, 46	DT Kindergarten Operations 1, 3-5, 7, 10-20, 22-25 MM Addition Sprints MM Subtraction Sprints	Kindergarten Operations Tests 1-4 Kindergarten Number Test 3

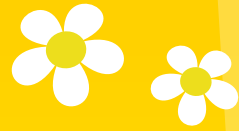


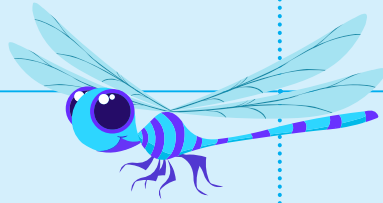


The Northern Ireland Curriculum Primary: Mathematics and Numeracy



YEAR 2



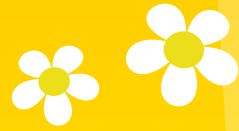
			Mathseeds Lesson #			Additional Mathseeds Resources	
Strand	Substrand	Pupils should be enabled to:	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
			Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
Number	Understanding Number	count a variety of objects; develop an understanding of one-to-one correspondence and that the size of a set is given by the last number in the count; investigate different ways of making sets for a given number within 5/10; match numerals to sets; develop an understanding of conservation of number within 5/10; understand in counting activities that 'none' is represented by zero; explore ordinal number; explore the number that comes after, before, between a given number; carry out simple mental calculations; extend understanding of number beyond 10.	56, 60, 63, 67, 75, 81, 86		60, 63, 67, 75, 81	DT Year 1 Number 1-24	Year 1 Number and Algebra: Place Value Tests 1-6 Year 1 Number and Algebra: Whole Numbers Tests 1-9
	Counting and Number Recognition	count forwards in ones within 5/10 from different starting points; count backwards in ones within 5/10 from different starting points; extend counting in ones and recognition of numbers beyond 10; extend activities to including counting in 2s, 5s and 10s.	56, 60, 67, 75, 77, 79, 86, 90		56, 67, 77, 79	DT Year 1 Operations 4-6 DT Year 1 Patterns and Fractions 7-10, 12	Year 1 Number and Algebra: Whole Numbers Tests 1-3, 6-9 Year 1 Number and Algebra: Patterns Tests 1, 3-7
		recognise numerals up to 5/10; state quantities within 5; make a sensible guess of quantities within 10; discover components of numbers within 5/10 by investigating different ways of partitioning sets into subsets partially; explore numbers relevant to their every day lives					
	Understanding Money	use money in various contexts; talk about things that they want to spend money on; understand the need to pay for goods; become familiar with coins in everyday use; talk about different ways we can pay for goods; use their number skills in shopping activities.	64, 83, 92		83	DT Year 1 Measurement 3, 5-7, 12	Year 1 Number and Algebra: Fractions and Money Tests 4-8
Measures		compare two objects of different length; order three objects of different length; find an object of similar length; explore the notion of conservation of length; understand and use the language of comparison choose and use non-standard units to measure length.	55, 84			DT Year 1 Measurement 2, 4, 13, 14	Year 1 Measurement: Length and Capacity Tests 1-5
		compare two objects of different weight; order three objects of different weight; find an object of similar weight; explore the notion of conservation of weight; understand and use the language of comparison choose and use non-standard units to measure weight.	73				
		compare two objects of different capacity; order three objects of different capacity; find an object of similar capacity; explore the notion of conservation of capacity; understand and use the language of comparison choose and use non-standard units to measure capacity.	89			DT Year 1 Measurement 11, 17-19	Year 1 Measurement: Length and Capacity Tests 6, 7
		compare two objects of different area; order three objects of different area; find an object of similar area; understand and use the language of comparison.	59				
		talk about significant times on the clock; compare two intervals of time in terms of longer/shorter time; explore time patterns; choose and use non-standard units to measure time.	54, 70, 87			DT Year 1 Measurement 1, 8-10, 15, 16	Year 1 Measurement: Time Tests 1-6
Shape and Space		explore and talk about shapes in the environment; create pictures and patterns with 2D shapes; investigate and talk about the properties of shapes; sort collections of shapes in several ways and describe the arrangements; describe and name common 2-D shapes.	52, 69			DT Year 1 Geometry 1-3, 6, 9, 10, 13	Year 1 Geometry: Shape Tests 1, 2
		explore and talk about shapes in the environment; build and make models with 3D shapes; investigate and talk about the properties of shapes; sort collections of shapes in several ways and describe the arrangements; describe and name common 3-D shapes.	62, 99			DT Year 1 Geometry 7, 8, 17-19	Year 1 Geometry: Shape Tests 3-6
		explore body space through different types of movement; understand and use a range of positional words; explore movement using programmable devices; follow/give directions from/to a partner for simple movements.	57, 78, 94			DT Year 1 Geometry 4, 5, 11, 12, 14-16	Year 1 Geometry: Shape Tests 7, 8
Sorting		explore freely properties of a range of materials and one/two/three property collections; sort collections of random materials; sort for one criterion using one-property material; sort for one criterion using two-property collections; re-sort for the second criterion; sort for one criterion using three/four-property collections; find the various possibilities; partition sets into subsets in preparation for exploring components of number.	80, 97		80	DT Year 1 Data 1-4, 9, 10, 12-16	Year 1 Statistics: Data Tests 1-5
Patterns and Relationships		investigate and talk about pattern in the environment; copy a simple pattern; continue a simple pattern; create patterns; explore pattern in number	77, 79, 90			DT Year 1 Patterns and Fractions 1, 2, 4, 10, 12	Year 1 Number and Algebra: Patterns Tests 2, 3, 5-7
		understand the concept of addition by combining sets of objects to find 'how many'; match objects in real contexts; compare sets by matching objects/counting objects to understand the terms 'more than' 'less than' 'the same'; investigate the relationship between addition and subtraction in practical situations.	51, 53, 58, 65, 68, 72, 85, 88, 91, 95, 96, 98			DT Year 1 Operations 1-20 MM Addition Sprints MM Subtraction Sprints	



The Northern Ireland Curriculum Primary: Mathematics and Numeracy



YEAR 3



			Mathseeds Lesson #			Additional Mathseeds Resources	
Strand	Substrand	Pupils should be enabled to:	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
			Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
Number	Understanding Number and Number Notation	count, read, write and order whole numbers, initially to 10, progressing to at least 1,000; understand the empty set and the conservation of number, understand that the place of digit indicates its value; make a sensible estimate of a small number of objects and begin to approximate the nearest 10 or 100.	101, 105, 106, 108, 122, 129		105, 106, 108	DT Year 2 Number 1-24	Year 2 Number and Algebra: Numbers to 1000 Tests 1-7
		recognise and use simple everyday fractions.	61, 66, 132, 138		132	DT Year 2 Patterns and Fractions 5, 11, 12, 14-17	Year 2 Number and Algebra: Fractions and Money Tests 1-4
	Patterns, Relationships and Sequences in Number	copy, continue and devise repeating patterns; explore patterns in number tables.	117, 133, 137, 140		101, 117, 132, 133, 137	DT Year 2 Patterns and Fractions 1-4, 6-10, 13	Year 2 Number and Algebra: Number Patterns Tests 1-8
		understand the commutative property of addition and the relationship between addition and subtraction; understand the use of a symbol to stand for an unknown number; understand and use simple function machines.	76, 93, 100, 131, 142, 148, 150		76, 93, 100	DT Year 2 Operations 20, 26	Year 2 Number and Algebra: Addition and Subtraction Tests 1, 4, 6, 7
	Operations and their Applications	understand the operations of addition, subtraction, multiplication and division (without remainders) and use them to solve problems; know addition and subtraction facts to 20 and the majority of multiplication facts up to 10×10 ; develop strategies for adding and subtracting mentally up to the addition of two two-digit numbers within 100.	71, 103, 110, 111, 113, 115, 118, 120, 124, 128, 130, 131, 134, 136, 137, 139, 140, 141, 142, 144, 146, 147, 148, 150		104, 110, 113, 115, 118, 120, 124, 128, 130, 134, 136, 139, 141, 142, 144, 146, 148, 150	DT Year 2 Operations 1-19, 22-25, 27, 28 MM Addition Sprints MM Subtraction Sprints MM Multiplication Sprints MM Division Sprints	Year 2 Number and Algebra: Addition and Subtraction Tests 1-8 Year 2 Number and Algebra: Equal Groups Tests 1-5
	Money	recognise coins and use them in simple contexts; add and subtract money up to £10, use the conventional way of recording money, and use these skills to solve problems.	118, 125, 139, 147		125, 131, 147	DT Year 2 Measurement 12	Year 2 Number and Algebra: Fractions and Money Tests 5-8
Measures		understand and use the language associated with length; use non-standard units to measure and recognise the need for standard units; know and use the most commonly used units to measure in purposeful contexts; make estimates using arbitrary and standard units; choose and use simple measuring instruments, reading and interpreting them with reasonable accuracy; understand the conservation of measures	104, 126, 140, 141, 143		141, 143	DT Year 2 Measurement 6, 9, 11, 13, 15, 19, 21-24	Year 2 Measurement: Informal Units Tests 1, 2, 8
		understand and use the language associated with 'weight'; use non-standard units to measure and recognise the need for standard units; choose and use simple measuring instruments, reading and interpreting them with reasonable accuracy; understand the conservation of measures	135		135	DT Year 2 Measurement 17, 18	Year 2 Measurement: Informal Units Tests 6-8
		understand and use the language associated with capacity; use non-standard units to measure and recognise the need for standard units; make estimates using arbitrary and standard units; understand the conservation of measures	116			DT Year 2 Measurement 8	Year 2 Measurement: Informal Units Tests 4, 5
		understand and use the language associated with area; use non-standard units to measure and recognise the need for standard units; know and use the most commonly used units to measure in purposeful contexts; make estimates using arbitrary and standard units; understand the conservation of measures	112, 149		149	DT Year 2 Measurement 6	Year 2 Measurement: Informal Units Test 3
		understand and use the language associated with time; know and use the most commonly used units to measure in purposeful contexts; sequence everyday events; know the days of the week, months of the year and seasons; explore calendar patterns; recognise times on the analogue clock and digital displays;	109, 114, 123, 127		109	DT Year 2 Measurement 1-5, 7, 10, 14, 16, 20	Year 2 Measurement: Time Tests 1-5
Shape and Space	Exploration of Shape	sort 2-D shapes in different ways; make constructions, pictures and patterns using 2-D shapes; name and describe 2-D shapes	119, 140, 145		119, 140, 145	DT Year 2 Geometry 4-7, 10	Year 2 Geometry: Shape and Movement Tests 1, 2, 5
		sort 3-D shapes in different ways; make constructions, pictures and patterns using 3-D shapes; name and describe 3-D shapes.	121		121, 140	DT Year 2 Geometry 3, 5-7	Year 2 Geometry: Shape and Movement Tests 3-5
	Position, Movement and Direction	use prepositions to state position; know the four points of the compass; use programmable devices to explore movement and direction.	102		102	DT Year 2 Geometry 1, 2, 8, 9, 11-13	Year 2 Geometry: Shape and Movement Tests 6-8
		understand angle as a measure of turn; understand and give instructions for turning through right angles; recognise right-angled corners in 2-D and 3-D shapes.					
Handling Data	Collecting, Representing and Interpreting Data	sort and classify objects for one or two criteria and represent results; collect data, record and present it using real objects, drawings, tables, mapping diagrams, simple graphs and ICT software; discuss and interpret the data; extract information from a range of charts, diagrams and tables; enter and access information using a database.	140, 143		143	DT Year 2 Data and Chance 1, 4, 5, 7-14	Year 2 Statistics: Data Tests 1-6





The Northern Ireland Curriculum Primary: Mathematics and Numeracy



YEAR 4



			Mathseeds Lesson #			Additional Mathseeds Resources	
Strand	Substrand	Pupils should be enabled to:	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
			Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Driving Tests (DT) Mental Minute (MM)	Printable Achievement Standards Assessment
Number	Understanding Number and Number Notation	count, read, write and order whole numbers, initially to 10, progressing to at least 1,000; understand the empty set and the conservation of number, understand that the place of digit indicates its value; make a sensible estimate of a small number of objects and begin to approximate the nearest 10 or 100.	151, 156, 161, 166, 194		151, 156, 161, 194		
		recognise and use simple everyday fractions.	160, 175, 180, 191, 197		175, 180, 191, 197		
	Patterns, Relationships and Sequences in Number	copy, continue and devise repeating patterns; explore patterns in number tables.	153, 195		153, 195		
		understand the commutative property of addition and the relationship between addition and subtraction; understand the use of a symbol to stand for an unknown number; understand and use simple function machines.	163, 181		163		
	Operations and their Applications	understand the operations of addition, subtraction, multiplication and division (without remainders) and use them to solve problems; know addition and subtraction facts to 20 and the majority of multiplication facts up to 10×10 ; develop strategies for adding and subtracting mentally up to the addition of two two-digit numbers within 100.	155, 158, 165, 168, 170, 171, 173, 176, 178, 181, 183, 186, 188, 190, 192, 193, 195, 196, 199		168, 170, 173, 176, 178, 181, 183, 186, 193, 196, 199		
	Money	recognise coins and use them in simple contexts; add and subtract money up to £10, use the conventional way of recording money, and use these skills to solve problems.	159		159, 188		
Measures		understand and use the language associated with length; know and use the most commonly used units to measure in purposeful contexts; make estimates using arbitrary and standard units; choose and use simple measuring instruments, reading and interpreting them with reasonable accuracy; understand the conservation of measures	182, 192, 198		182		
		understand and use the language associated with 'weight'; know and use the most commonly used units to measure in purposeful contexts; choose and use simple measuring instruments, reading and interpreting them with reasonable accuracy; understand the conservation of measures	172		172		
		understand and use the language associated with capacity; know and use the most commonly used units to measure in purposeful contexts; make estimates using arbitrary and standard units; understand the conservation of measures	154		154		
		understand and use the language associated with area; know and use the most commonly used units to measure in purposeful contexts; know and use the most commonly used units to measure in purposeful contexts; make estimates using arbitrary and standard units; understand the conservation of measures	157, 200		200		
		understand and use the language associated with time; know and use the most commonly used units to measure in purposeful contexts; sequence everyday events; know the days of the week, months of the year and seasons; explore calendar patterns; recognise times on the analogue clock and digital displays;	162, 179, 185, 189		179, 185, 189		
Shape and Space	Exploration of Shape	sort 2-D shapes in different ways; make constructions, pictures and patterns using 2-D shapes; name and describe 2-D shapes; recognise reflective symmetry; explore simple tessellation through practical activities.	152, 184				
		sort 3-D shapes in different ways; make constructions, pictures and patterns using 3-D shapes; name and describe 3-D shapes.	169				
	Position, Movement and Direction	use prepositions to state position; know the four points of the compass; use programmable devices to explore movement and direction.	164				
		understand angle as a measure of turn; understand and give instructions for turning through right angles; recognise right-angled corners in 2-D and 3-D shapes.	177				
Handling Data	Collecting, Representing and Interpreting Data	sort and classify objects for one or two criteria and represent results; collect data, record and present it using real objects, drawings, tables, mapping diagrams, simple graphs and ICT software; discuss and interpret the data; extract information from a range of charts, diagrams and tables; enter and access information using a database.	174, 187, 198		187		

