	RECEPTION		Mathseeds Les	sson #	Additional Mathseeds Resources		
		Content and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Domains	Early Learning Goals	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	Children count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number.	1, 2, 3, 5, 7, 10, 11, 12, 45, 46, 48, 50	14, 16, 17, 18, 19, 20	0, 21, 22, 25, 28, 31, 33, 41, 43,	DT Early Number	Kindergarten Number Tests 1-3	
	Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer.	24, 30, 32, 34, 36, 40,	47		DT Early Operations	Kindergarten Operations all Tests	
	They solve problems, including doubling, halving and sharing.	49, 71			MM Addition Sprints MM Subtraction Sprints		
Shape, Space & Measures	Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.	13, 26, 29, 38, 39, 42, .	55		DT Early Measurement	Kindergarten Measurement all Tests Kindergarten Geometry Tests 5-6	
	They recognise, create and describe patterns.	8, 27, 37			DT Early Patterns	Kindergarten Number Test 4	
	They explore characteristics of everyday objects and shapes and use mathematical language to describe them.	4, 6, 9, 15, 23, 35, 44			DT Early Geometry	Kindergarten Geometry Tests 1-3	









YEAP 1			Mathseeds Le	esson #	Additional Mathseeds Resources		
		Content and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Domains	Statutory requirements Pupils should be taught to:	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	
	Read and write numbers from 1 to 20 in numerals and words.	56, 63	·	·			
	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given					Year 1 Number and Alaebra:	
	Count, read and write numbers to 100 in numerals.	-				Whole Numbers all Tests	
place value	Given a number, identify one more and one less.	56, 60, 67, 75, 81, 86			DT Year 1 Number	Place Value Tests 1-6	
-	Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.					Year 1 Number and Algebra: Patterns all Tests	
	Count in multiples of twos, fives and tens.	77, 79, 90					
	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.					Year 1 Number and Algebra: Operations Tests 1-5	
Addition and	Represent and use number bonds and related subtraction facts within 20.	- 51 53 58 65 68 72	76 85 88 01 10	00	DT Year 1 Operations MM Addition Sprints MM Subtraction Sprints		
subtraction	Add and subtract one-digit and two-digit numbers to 20, including zero.	51, 53, 56, 63, 66, 72,	70,00,00,71,10			Year 1 Number and Algebra: Place Value Test 7	
	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.						
Multiplication and division	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays.	71, 74, 111			DT Year 1 Operations MM Multiplication Sprints MM Division Sprints	Year 1 Number and Algebra: Operations Tests 6-7	
Fractions	Recognise, find and name a half as one of two equal parts of an object, shape or quantity	61			DT Year 1 Patterns &	Year 1 Number and Algebra:	
Fractions	Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.	66			Fractions	Fractions all Tests	
	Compare, describe and solve practical problems for: lengths and heights, mass/weight, capacity and volume.	73, 84, 89				Year 1 Measurement: Length, Mass and Capacity all Tests	
	Measure and begin to record: lengths and heights, mass/weight, capacity and volume.						
	Recognise and know the value of different denominations of coins and notes.	64				Year 1 Number and Algebra: Money Tests 1, 2, 4	
Measurement	Compare, describe and solve practical problems for time.	87			DT Year 1 Measurement		
	Measure and begin to record time.				Year 1 Measurement: Time all Tests		
	Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	54, 70, 87 39					
	Sequence events in chronological order using language.						
	Recognise and use language relating to dates, including days of the week, weeks, months and years.	42, 109					
Properties of shapes	Recognise and name common 2-D, including: 2-D shapes [for example, rectangles (including squares), circles and triangles]	23, 52				Vern 1 Coordination Channel	
	Recognise and name common 3-D shapes, including: 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].	62, 99			DT Year 1 Geometry	Year 1 Geometry: Shape, Position and Direction all Tests	
Position and direction	Describe position, direction and movement, including whole, half, quarter and three-quarter turns.	55, 57, 78, 94, 102					

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			Mathseeds Le	esson #	Additional Mathseeds Resources		
		Content and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Domains	Statutory requirements Pupils should be taught to:	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	
	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.	117			-		
Number and place value	Recognise the place value of each digit in a two-digit number (tens, ones).	88			-	Year 2 Number and Algebra: Whole Numbers all Tests Year 2 Number and Algebra: Number Patterns all Tests	
	Compare and order numbers from 0 up to 100; use <, > and = signs.	122					
	Use place value and number facts to solve problems.	129			DT Year 2 Number		
	Identify, represent and estimate numbers using different representations, including the number line.	56, 60, 63, 67, 75, 81, 8	6				
	Read and write numbers to at least 100 in numerals and in words.						
Addition and	Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.						
	Solve problems with addition and subtraction applying their increasing knowledge of mental and written methods.	103, 110, 110, 120, 131, 137, 139, 141			_		
	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones, a two-digit number and tens, two two-digit numbers, and adding three one-digit numbers.	51, 53, 58, 65, 68, 85, 8	38, 91, 95, 96, 9	8	DT Year 2 Operations MM Addition Sprints	Year 2 Number and Algebra: Addition and Subtraction all Tests	
Subiraciion	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	76, 133, 142			MM Subtraction Sprints		
	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot	93			_		
	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	93, 142					
	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	108, 115			_		
Multiplication	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.	115, 136			DT Year 2 Operations	Year 2 Number and Algebra: Equal Groups all Tests	
and division	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	181			MM Division Sprints		
	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	111, 113, 115, 130					
	Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity.	138 180				Year 2 Number and Algebra: Fractions all Tests	
Fractions	Write simple fractions eg $\frac{1}{2}$ of 6 = 3.				DT Year 2 Patterns & Fractions		
	Recognise the equivalence $\frac{2}{4} = \frac{1}{2}$.						
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YEAR 2 continued		I	Mathseeds Lo	esson #	Additional Mathseeds Resources		
		Content and Skills	s Assessment Higher Order Thinking		Fluency	Assessment	
Domains	Statutory requirements Pupils should be taught to:	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	
Measurement	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.	104, 126, 143, 154, 172					
	Compare and order lengths, mass, volume/capacity and record the results using >, < and =.	116, 135, 143			DT Year 2 Measurement		
	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.	125				Year 2 Measurement:	
	Find different combinations of coins that equal the same amount of money.					Year 2 Number and	
	Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	83, 92, 147				Year 2 Measurement: Time all Tests	
	Compare and sequence intervals of time.	127					
	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	ands 114, 123					
	Know the number of minutes in an hour and the number of hours in a day.	123					
	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.	52, 119, 145, 152				Year 2 Geometry: Shape and Movement all Tests	
Properties of	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.	62, 121			DT Year 2 Geometry		
shapes	Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].	121					
	Compare and sort common 2-D and 3-D shapes and everyday objects.	52, 62, 99, 121, 145					
	Order and arrange combinations of mathematical objects in patterns and sequences.	102			DT Year 2 Patterns & Fractions		
Position and direction	Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).	94, 102			DT Year 2 Geometry	Year 2 Geometry: Shape and Movement all Tests	
Statistics	Interpret and construct simple pictograms, tally charts, block diagrams and tables.						
	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.	80, 97, 135, 143			DT Year 2 Data	Year 2 Statistics: Data all Tests	
	Ask and answer questions about totalling and comparing categorical data.						







	YEAR 3	Mathseeds Lesson #			
		Content and Skills	Assessment	Higher O	
Domains	Statutory requirements Pupils should be taught to:	Online Lesson and Printable Resources	End-of- lesson Quiz	Critical Th Solving V	
Number and place value	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.	132, 148			
	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).	105			
	Compare and order numbers up to 1000.				
	Identify, represent and estimate numbers using different representations.	101, 106			
	Read and write numbers up to 1000 in numerals and in words.				
	Solve number problems and practical problems involving these ideas.	166, 194			
Addition and	Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three- digit number and hundreds.	148, 173			
	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.	124, 128, 134, 144, 146,	150, 170, 178		
subtraction	Estimate the answer to a calculation and use inverse operations to check answers.				
	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	153, 163, 183, 188, 195			
	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	158, 171, 176, 181			
Multiplication and division	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.	155, 165, 186, 193, 199			
	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	168, 188, 190, 196			
	Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.	180			
	Recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators.	132			
Ernetione	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.	198			
FIGCIONS	Recognise and show, using diagrams, equivalent fractions with small denominators.	180			
	Add and subtract fractions with the same denominator within one whole.	191			
	Compare and order unit fractions, and fractions with the same denominators.	160, 175			
	Solve problems that involve all of the above.	191			

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Additional Mathseeds Resources order Thinking Skills Fluency hinking and Problem Mental Minute (MM) Vorksheets **MM** Addition Sprints **MM** Subtraction Sprints **MM** Multiplication Sprints **MM** Division Sprints 6

YEAR 3 continued			Mathseeds L	Additional Mathseeds Resources		
		Content and Skills	Assessment	Higher Order Thinking Skills	Fluency	
Domains	Statutory requirements Pupils should be taught to:	Online Lesson and Printable Resources	End-of- lesson Quiz	Critical Thinking and Problem Solving Worksheets	Mental Minute (MM)	
Measurement	Measure, compare, add and subtract: lengths (m/cm/mm), mass (kg/g); volume/capacity (l/ml).	154, 172, 182, 198				
	Measure the perimeter of simple 2-D shapes.	192				
	Add and subtract amounts of money to give change, using both \pounds and p in practical contexts.	159				
	Tell and write the time from an analogue clock, including using roman numerals from i to xii, and 12-hour and 24-hour clocks.	179, 185				
	Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.	162, 179, 185				
	Record and compare time in terms of seconds; know the number of seconds in a minute	-				
	Know the number of days in each month, year and leap year.	109				
	Compare durations of events [for example to calculate the time taken by particular events or tasks].	179, 189				
	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.	69, 169				
Properties of	Recognise angles as a property of shape or a description of a turn.	177, 184				
shapes	Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.	177				
	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	119, 145				
	Interpret and present data using bar charts, pictograms and tables.					
Statistics	Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	174, 187, 198				
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