

	000	STAGE 1			Mathseeds Le	esson	Additional Math	seeds Resources
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Content	Topics	Learning objectives	Codes	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
		Recite numbers in order; Read and write numerals from 0 to 20; Count objects up to 20	1Nn1 1Nn2 1Nn3	1, 2, 3, 5, 7, 10, 11, 12, 14, 16, 17 30, 33, 41, 43, 45, 46, 48, 50,	, 18, 19, 20, 21, 56	12, 41	DT Early Number 1-7, 9, 10, 13-19	Kindergarten Number Tests 1, 2
		Count on in tens to 100 or just over; Count on in twos	1Nn4 1Nn5	77, 79, 90				
		Begin partitioning two-digit numbers into tens and ones and reverse; Say the number that is 1 or 10 more or less	1Nn6 1Nn7	45, 46, 50			DT Early Number 11, 12	Kindergarten Number Test 4
	Numbers and the number system	Use more or less to compare two numbers	1Nn8	22		41	DT Early Number 8, 20	Kindergarten Number Test 3
		Order numbers to at least 20 on a number track; use ordinal numbers	1Nn9	18, 20, 21, 25, 28, 31, 50, 56, 63			DT Early Number 24, 25	
		Use the = sign to represent equality	1Nn10	76				
		Find halves of small numbers and shapes by folding, and recognise which shapes are halved	1Nn12	61				
	Calculation:	Know all number pairs to 10; Begin to know number pairs to 6, 7, 8, 9 and 10; Add more than two small numbers, spotting pairs to 10	1Nc1 1Nc2 1Nc3	24, 30, 32, 34, 36, 40, 47, 49,	51	12, 19, 30, 34, 36, 40, 43, 47	DT Early Operations 3-5, 10-12, 16, 17, 22-25 MM Addition Sprints MM Subtraction Sprints	Kindergarten Operations Test 3
NUMBER	Mental strategies	Know doubles to at least double 5; Find near doubles	1Nc5 1Nc6	49, 72, 91			DT Early Operations 20	
		Begin to recognise multiples of 2 and 10		77, 79, 90				
		Understand addition as counting on and combining two sets; record related addition sentences	1Nc8	24, 30, 32, 34, 36, 40, 49		12, 19, 30, 34, 36, 40, 43	DT Early Operations 1, 2, 6, 7, 9	Kindergarten Operations Test 1
		Understand subtraction as counting back and 'take away'; record related subtraction sentences; Understand difference as 'how many more to make?'	1Nc9 1Nc10	47, 53, 58, 68		47	DT Early Operations 13, 14, 18, 19	Kindergarten Operations Test 2
	Calculation: Addition and subtraction	Add/subtract a single-digit number by counting on/back; Find two more or less than a number to 20, recording the jumps on a number line	1Nc11; 1Nc12	24, 30, 32, 34, 36, 40, 47, 49,			DT Early Operations 1, 2, 6, 7, 9, 13, 14, 18, 19	
		Begin to use the +, – and = signs to record calculations; Recognise the use of a sign to represent an unknown	1Nc14 1Nc17	24, 30, 32, 34, 36, 40, 47, 49, 68	51, 53, 58, 65,	30, 34, 36, 40, 43, 47	MM Addition Sprints MM Subtraction Sprints	
		Understand that changing the order of addition does not change the total; Add a pair of numbers by putting the larger number first and counting on; Begin to add single- and two-digit numbers	1Nc15 1Nc16 1Nc18	65				
	Calculation: Multiplication	Double any single-digit number	1Nc19	49, 72				
	مسما مانيناما مسم	Find halves of even numbers of objects up to 10; Share objects into two equal groups in a context	1Nc20 1Nc21	71, 74			DT Early Operations 8, 21	







STAG	E 1 co	ntinued S		Mathseeds Lesson			Additional Mathseeds Resources		
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Content areas	Topics	Learning objectives	Codes	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	
	Shapes and	Name and sort common 2D shapes. Use them to make patterns and models	1Gs1	4, 6, 8, 9, 15, 23, 27, 37, 69		6, 8, 15, 23, 27, 31, 37, 38, 40, 46	DT Early Geometry 1-8 DT Early Patterns 1-9	Kindergarten Geometry Tests 1, 3, 4	
GEOMETRY	geometric reasoning	Name and sort common 3D shapes. Use them to make patterns and models	1Gs2	35, 44, 62, 69			DT Early Geometry 15-23	Kindergarten Geometry Tests 2, 3	
	Position and movement	Use everyday language of direction and distance to describe movement of objects	1Gp1	55, 57			DT Early Geometry 9-11, 13, 14	Kindergarten Geometry Test 5	
	Money	Recognise all coins and work out how to pay an exact sum using smaller coins	1Mm1	64				Kindergarten Number Test 5	
		Compare lengths by direct comparison; Use comparative language		13, 26			DT Early Measurement 2, 3, 5, 6, 9, 10	Kindergarten Measurement Tests 1, 2, 3	
	Length, mass and capacity	Compare weights by direct comparison; Use comparative language	1Ml1 1Ml3	29			DT Early Measurement 7, 8, 11, 12	Kindergarten Measurement Test 4	
MEASURE		Estimate and compare capacities by direct comparison; Use comparative language		38			DT Early Measurement 15, 16, 20	Kindergarten Measurement Test 5	
		Begin to understand and use some units of time	1Mt1	42					
	Time	Read the time to the hour (o'clock) and know key times of day to the nearest hour	1Mt2	54					
		Order the days of the week and other familiar events		39, 42			DT Early Measurement 1, 4, 13, 14, 17-19		
HANDLING DATA	Organising, categorising and representing data	Answer a question by sorting and organising data or objects in a variety of ways.	1Dh1				DT Early Data 1-10	Kindergarten Data Tests 1, 2	
		Choose appropriate strategies to carry out calculations, explaining working out	1Pt1			12, 19, 30, 34, 36, 40, 43, 47			
	Using techniques	Explore number problems and puzzles	1Pt2			12, 41			
PROBLEM SOLVING	and skills in solving	Find many combinations	1Pt3			6, 8, 12, 15, 23, 27, 43			
	mathematical problems	Decide to add or subtract to solve a simple word problem and represent it with objects	1Pt4			19, 30, 34, 36, 40, 43, 47		Kindergarten Operations Test 5	
		Identify simple relationships between numbers and shapes	1Pt8			41			





000	STAGE 2		Mathseeds Lesson		Additional Mathseeds Resources		
N CO			Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Topics	Learning objectives	Codes	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
	Count, read and write numbers to at least 100 and back again; Count up to 100 objects	2Nn1 2Nn2	56, 60, 67, 75, 81, 86, 88		67	DT Grade 1 Number 1-4, 6, 8, 11-14, 16, 20-23	Grade 1 Number and Algebra: Whole Numbers Tests 1, 2, 3, 4, 5, 6, 7, 9
	Count on in ones and tens; Count in twos, fives and tens; Begin to count on in threes and fours	2Nn3 2Nn4 2Nn5	77, 79, 88, 90, 117		67, 77, 79	DT Grade 1 Patterns and Fractions 7-10, 12	Grade 1 Number and Algebra: Whole Numbers Tests 8, 9 Grade 1 Number and Algebra: Patterns Tests 1, 2, 3, 4, 5, 6, 7
	Know what each digit represents in two-digit numbers; partition into tens and ones; Find 1 or 10 more/less	2Nn6 2Nn7	56, 60, 67, 75, 81, 86, 88, 98	3	60, 67, 79, 81, 88, 95, 98	DT Grade 1 Number 5, 9, 10, 15, 17, 19, 24	Grade 1 Number and Algebra: Place Value All tests
	Round two-digit numbers to the nearest multiple of 10	2Nn8	129				
Numbers and the number	Say a number between any given neighbouring pairs of multiples of 10; Place a two-digit number on a number line marked off in multiples of ten	2Nn9 2Nn10	56, 60, 67, 75, 81, 86		60		
system	Recognise and use ordinal numbers up to at least 10th	2Nn11	63		63		
	Order numbers to 100; compare two numbers using the > and < signs; Give a sensible estimate of up to 100 objects		56, 60, 67, 75, 81, 86		83	DT Grade 1 Number 7, 18	Grade 1 Number and Algebra: Whole Numbers Tests 3, 4, 7, 8 Grade 1 Number and Algebra: Place Value Test 6
	Understand even and odd numbers and recognise these up to at least 20; Sort numbers, e.g. odd/even	2Nn14 2Nn15	108				
	Recognise that we write one half $\frac{1}{2}$, one quarter $\frac{1}{4}$ and three quarters $\frac{3}{4}$; Recognise that $\frac{2}{2}$ or $\frac{4}{4}$ make a whole and $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent; Recognise which shapes are divided in halves or quarters and which are not; Find halves and quarters of shapes and small numbers of objects	2Nn16 2Nn17 2Nn18 2Nn19	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
Calculation: Mental	Find and learn by heart all number pairs to 10 and pairs with a total of 20; Partition all numbers to 20 into pairs and record the related addition and subtraction facts	2Nc1 2Nc2	65, 93		93, 95, 100	DT Grade 1 Operations 1-9, 12, 16 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Tests 1, 2, 3
strategies	Find and learn doubles for all numbers up to 10	2Nc5	72, 91		91		
	Relate counting on/back in tens to finding 10 more/less and then to adding and subtracting other multiples of 10	2Nc6	95, 98			DT Grade 1 Operations 13, 14, 17, 19, 20 MM Addition Sprints MM Subtraction Sprints	
	Use the = sign to represent equality	2Nc7	76		65, 67, 75, 76, 82, 85, 88	DT Grade 1 Operations 10, 11	
Calculation:	Add four or five small numbers together	2Nc8	51, 65		51, 83		
subtraction	Add and subtract a single digit to and from a two-digit number; Add pairs of two-digit numbers; Find a small difference between pairs of two-digit numbers	2Nc11 2Nc12 2Nc13	53, 68, 85, 95, 96, 100		65, 95, 96, 100	DT Grade 1 Operations 15, 18 MM Addition Sprints MM Subtraction Sprints	Grade 1 Number and Algebra: Operations Tests 4, 5, 6
	Understand that addition can be done in any order, but subtraction cannot	2Nc14	93				
	Understand subtraction as both difference and take away	2Nc15	53, 58, 68, 85, 100		53, 56, 67		
	Understand multiplication as repeated addition and use the \times sign; Understand multiplication as describing an array	2Nc16	111, 113, 115		79		
Multiplication	Understand division as grouping and use the ÷ sign	2Nc18	71, 74, 136		71, 74		
and division	Use counting in twos, fives or tens to solve practical problems involving repeated addition	2Nc19	74, 77, 79		77, 79		
	Numbers and the number system Calculation: Mental strategies Calculation: Addition and subtraction	Count, read and write numbers to at least 100 and back again; Count up to 100 objects	Topics Learning objectives Count, read and write numbers to at least 100 and back again; Count up to 100 objects 2Nn1 2Nn2 2Nn3 2Nn3 2Nn3 2Nn3 2Nn3 2Nn5 2Nn6 2Nn0 2Nn6 2Nn6 2Nn6 2Nn6 2Nn6 2Nn6 2Nn6 2Nn6	Topics Learning objectives Codes C	Topics Learning objectives Codes Printable Resources, problem Solving Tasks Problem Solv	Topics Learning objectives Code Code	Norman





STAGE 2 continued





STAC	GE 2 co	ontinued		Mathseeds Lesson		Additional Math	seeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Content areas	Topics	Learning objectives	Codes	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
	Shapes and	Sort, name, describe, visualise, draw and recognise 2D shapes ; Find examples of 2D shapes in the environment	2Gs1 2Gs4	52			DT Grade 1 Geometry 1, 2, 3, 6, 10	Grade 1 Geometry: Shape Tests 1, 2, 5, 6, 7
GEOMETRY	geometric reasoning	Sort, name, describe, make and recognise 3D shapes; Find examples of 3D shapes in the environment	2Gs2 2Gs4	62, 99			DT Grade 1 Geometry 7, 8, 17-19	Grade 1 Geometry: Shape Tests 3, 4, 5, 6, 7
	Position and movement	Follow and give instructions involving position, direction and movement; Recognise whole, half and quarter turns, both clockwise and anti-clockwise	2Gp1 2Gp2	57, 78, 94			DT Grade 1 Geometry 4, 5, 11, 12, 14, 15, 16	Grade 1 Number and Algebra: Patterns Tests 2, 3, 5
	Money	Recognise all coins and notes; Use money notation; Find totals and the coins and notes required to pay a given amount; work out change		64, 83, 92		83	DT Grade 1 Measurement 3, 5-7, 12	Grade 1 Number and Algebra: Fractions and Money Tests 3, 4, 5, 6, 7
	Length, mass	Estimate, measure and compare lengths, weights and capacities		73, 84, 89			DT Grade 1 Measurement 2, 4, 11, 13, 14, 17-19	Grade 1 Measurement: Length All tests
MEASURE	and capacity	Compare lengths, weights and capacities using the standard units: centimetre, metre, 100 g, kilogram, litre		104, 126, 143				
MERIORE		Know the units of time; Know the relationships between consecutive units of time		42, 70, 87, 109				
	Time	Read the time to the half hour on digital and analogue clocks		70, 87		87	DT Grade 1 Measurement 1, 8-10, 15	Grade 1 Measurement: Time All tests
		Know and order the days of the week and the months of the year		42, 109				
HANDLING DATA	Organising, categorising and representing data	Answer a question by collecting and recording data in lists and tables, and representing it as block graphs and pictograms to show results	2Dh1	80, 97		80	DT Grade 1 Data 1-4, 6, 9, 10, 12-16	Grade 1 Statistics: Data All tests
		Choose appropriate mental strategies to carry out calculations and explain how they worked out the answer	2Pt1			51, 53, 56, 65, 68, 71, 74, 77, 79, 83, 91, 93, 96		
	Using	Explore number problems and puzzles	2Pt3			60, 67, 88		
PROBLEM SOLVING	techniques and skills in solving mathematical	Make sense of simple word problems, decide what operations are needed to solve them and, with help, represent them	2Pt4			51, 53, 56, 65, 68, 71, 74, 77, 79, 83, 91, 93, 95, 96, 100		
	problems	Check the answer to an addition by adding the numbers in a different order or by using a different strategy	2Pt6			77, 79		
		Identify simple relationships between numbers and shapes	2Pt9	52, 62, 69, 72, 88, 99		88, 91		







		STAGE 3	1		Mathseeds Les	sson	Additional Mat	hseeds Resources
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment
Content areas	Topics	Learning objectives	Codes	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
		Recite numbers 100 to 200 and beyond; Read and write numbers to at least 1000	3Nn1 3Nn2	101, 105, 106		105	DT Grade 2 Number 1, 3, 8, 10, 12, 13, 18, 23, 24	Grade 2 Number and Algebra: Numbers to 1000 Tests 1, 3
		Count on and back in ones, tens and hundreds; And in steps of 2, 3, 4, 5	3Nn3 3Nn4	106, 117, 120, 133			DT Grade 2 Patterns and Fractions 1-4, 6-10, 13	Grade 2 Number and Algebra: Number Patterns All tests
		Understand what each digit represents in three-digit numbers and partition into hundreds, tens and units; Order two- and three-digit numbers	3Nn5 3Nn12	101, 105, 106		105, 128, 134	DT Grade 2 Number 2, 4-7, 11, 16, 19-22	Grade 2 Number and Algebra: Numbers to 1000 Tests 2, 5, 8
		Find 1, 10, 100 more/less than a number	3Nn6	101, 106, 133, 148			DT Grade 2 Number 9, 17	
	Numbers and the	Round two-digit numbers to the nearest 10 and round three-digit numbers to the nearest 100	3Nn8	129, 194				
	number system	Place a three-digit number on a number line	3Nn9 3Nn10	101, 105, 106				Grade 2 Number and Algebra: Numbers to 1000 Test 4
		Compare three-digit numbers, use < and > signs	3Nn11	122			DT Grade 2 Number 14, 15	Grade 2 Number and Algebra: Numbers to 1000 Tests 7, 8
		Understand and use fraction notation; Recognise equivalence between $\frac{1}{2}$, $\frac{2}{4}$, $\frac{4}{8}$ and $\frac{5}{10}$ using diagrams; Order fractions on a number line	3Nn15 3Nn16 3Nn18	132, 138, 160		132	DT Grade 2 Patterns and Fractions 5, 11, 12, 14-17	Grade 2 Number and Algebra: Fractions and Money Tests 1, 2, 3
		Recognise and order simple mixed fractions	3Nn17 3Nn18	160				
		Begin to relate finding fractions to division; Find halves, thirds, quarters and tenths of shapes and numbers	3Nn19 3Nn20	132, 138		132	DT Grade 2 Patterns and Fractions 5, 11, 12, 14-17	
NUMBER	Calculation:	Know addition and subtraction facts for numbers to 20	3Nc1	118, 124, 125, 128, 130, 131, 134 142, 144, 146, 147, 148, 150	4, 135, 137, 139,	128, 134, 142	DT Grade 2 Operations 1, 2, 4, 5 MM Addition Sprints MM Subtraction Sprints	Grade 2 Number and Algebra: Addition and Subtraction Test 1
	Mental strategies	Know multiplication/division facts for 2×, 3×, 5× and 10× tables; Begin to know 4× table	3Nc3 3Nc4	118, 124, 125, 128, 130, 131, 134 144, 146, 147, 148, 150	4, 137, 139, 142,		MM Multiplication Sprints MM Division Sprints	
		Add and subtract 10 and multiples of 10; Add 100 and multiples of 100; Find 20, 30, 90, 100, 200, 300 more/less than three-digit numbers	3Nc9 3Nc10 3Nc18	98, 120, 148, 195			DT Grade 2 Operations 7, 13, 27, 28 MM Addition Sprints MM Subtraction Sprints	
		Use the = sign to represent equality	3Nc11	76, 125, 163				
	Calculation: Addition and subtraction	Add several small numbers; Re-order an addition to help with the calculation	3Nc12 3Nc16	118, 124, 134, 137, 150		118, 150		Grade 2 Number and Algebra: Addition and Subtraction Test 4
		Add and subtract pairs of two-digit numbers; Re-order an addition to help with the calculation	3Nc14 3Nc16	110, 120, 124, 128, 134			DT Grade 2 Operations 14-17, 20, 23	Grade 2 Number and Algebra: Addition and Subtraction Tests 2, 3, 4, 5, 6
		Add/subtract single-digit numbers to/from three-digit numbers; Add three-digit and two-digit numbers using notes to support	3Nc15 3Nc17	128, 144		128, 134, 144, 146	DT Grade 2 Operations 18, 21, 24-26	Grade 2 Number and Algebra: Addition and Subtraction Tests 7, 8, 9
		Understand the effect of multiplying two-digit numbers by 10	3Nc20	193				
	Calculation: Multiplication and division	Multiply single-digit numbers and divide two-digit numbers by 2, 3, 4, 5, 6, 9 and 10	3Nc21	115, 118, 124, 130, 131, 134, 135 155, 158, 165, 168, 171, 176	5, 136, 137, 139,	113, 130, 136	DT Grade 2 Operations 6, 8-12, 19	
Ž.		Understand and apply the idea that multiplication is commutative; Understand the relationship between multiplication and division and write connected facts	3Nc25 3Nc26	181, 199				



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Mathseeds Lessons and The Cambridge Primary Mathematics Curriuculum Framework



STAGE 3 continued

Topics

Shapes and

geometric

reasoning

Position and movement

Length, mass and

Money

capacity

Time

Organising,

categorising and

representing data

Using techniques and skills in solving

mathematical

understanding and strategies in

solving problems

problems

Content

areas

GEOMETRY

MEASURE

HANDLING

DATA

PROBLEM SOLVING



Learning objectives

Identify, describe and draw regular and irregular 2D shapes; Classify 2D shapes; Identify 2D shapes in the environment; Relate 2D shapes to drawings of them

Identify, describe and make 3D shapes; investigate which nets will make a cube;

Classify 3D shapes; Identify 3D shapes in the environment; Relate 3D solids to

Draw and complete 2D shapes with reflective symmetry and draw reflections of

Use the language of position, direction and movement, including clockwise and

Find and describe the position of a square on a grid of squares where the rows and

Consolidate using money notation; Use addition and subtraction facts with a total of

Choose and use appropriate units and equipment; Know the relationship between kilometres, metres and centimetres; Use a ruler to draw and measure lines to the

Choose and use appropriate units and equipment; Know the relationship between

Choose and use appropriate units and equipment; Know the relationship between

Suggest and use suitable units to measure time and know the relationships

Read the time on analogue clocks to the nearest 5 minutes and to the nearest

Answer a real-life question by collecting, organising and interpreting data; Use tally

charts, frequency tables, pictograms (symbol representing one or two units) and bar

Begin to understand everyday systems of measurement in length, weight, capacity

Explain a choice of calculation strategy and show how the answer was worked out

Describe and continue patterns which count on or back in steps of 2, 3, 4, 5, 10, or 100

Make sense of and solve word problems, single and two-step and begin to

kilograms and grams; Solve word problems involving measures

litres and millilitres; Solve word problems involving measures

Begin to calculate time intervals in hours and minutes

charts (intervals labelled in ones or twos)

Recognise the relationships between 2D shapes

Explore and solve number problems and puzzles

Identify simple relationships between numbers

Identify simple relationships between shapes

Use lists and tables to solve problems systematically

Identify differences and similarities between 3D shapes

represent them

Read a calendar and calculate intervals in weeks or days

Choose appropriate mental strategies to carry out calculations

and time and use these to make measurements as appropriate

shapes; Identify lines of symmetry in the environment

nearest centimetre; Solve word problems



/		Mathseeds Les	son	Additional Ma	ithseeds Resources	
	Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency	Assessment	
Codes	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	
3Gs1 3Gs2 3Gs6 3Gs7	119, 145			DT Grade 2 Geometry 4, 6, 7, 10	Grade 2 Geometry: Shape Tests 1, 2, 5	
3Gs3 3Gs4 3Gs6 3Gs7	99, 121		121, 140	DT Grade 2 Geometry 3, 5-7	Grade 2 Geometry: Shape Tests 3, 4, 5	
3Gs5 3Gs7	102, 152					
3Gp1	94, 102		102	DT Grade 2 Geometry 1, 9, 11, 13		
3Gp2	164			DT Grade 2 Geometry 2, 8		
3Mm1 3Mm2	124, 125, 128, 131, 134, 139, 14 150	14, 146, 147, 148,		DT Grade 2 Measurement 12	Grade 2 Number and Algebra: Fractions and Money Tests 4, 5, 6, 7	
3Ml1 3Ml2 3Ml4 3Ml5	104, 126, 141, 143			DT Grade 2 Measurement 6, 9, 11, 13, 15, 19, 21-24	Grade 2 Measurement: Length All tests	
3Ml1 3Ml2 3Ml5	135, 172			DT Grade 2 Measurement 17, 18		
3Ml1 3Ml2 3Ml5	154			DT Grade 2 Measurement 8		
3Mt1	109			DT Grade 2 Measurement 3-5, 14, 16		
3Mt2	114, 123			DT Grade 2 Measurement 7, 10, 20	Grade 2 Measurement: Time Tests 1, 2, 4, 5	
3Mt3	127				Grade 2 Measurement: Time Test 3	
3Mt4	109		109	DT Grade 2 Measurement 1, 2	Grade 2 Measurement: Time Test 7	
3Dh1 3Dh2	107, 143, 174, 187			DT Grade 2 Data 1, 4, 5, 7-14	Grade 2 Statistics: Data All tests	
3Pt1	118, 124, 125, 128, 130, 131, 13 144, 146, 147, 148, 150	4, 135, 137, 139,	133			
3Pt2	104, 109, 114, 123, 126, 127, 13 172	35, 141, 143, 154,	109			
3Pt3	118, 124, 130, 131, 134, 135, 13	37, 139, 147	113, 118, 128, 130, 134, 136, 139, 144, 146, 150		Grade 2 Number and Algebra: Addition and Subtraction Test 9 Grade 2 Number and Algebra: Equal Groups Test 5	
3Pt8			102			
3Pt9			121, 140			
3Ps2			109, 113, 118, 128, 130, 134, 136, 139, 142, 144, 146, 150			
3Ps3	101, 105, 106, 117, 120, 133		105, 124, 132, 133, 139			
3Ps4	137		105, 121, 132, 133, 140, 142			
3Ps5	117, 120, 133		109, 113, 130, 132, 133			ý.
3Ps6	117, 120, 133		105, 109, 132, 133, 142			M
3Ps7			102, 121, 140			



Mathseeds Lesson

Additional Mathseeds

Resources

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				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency
Content areas	Topics	Learning objectives	Codes	Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Mental Minute (MM)
		Read and write numbers up to 10 000	4Nn1	151, 156		153, 161, 194, 199	
		Count on and back in ones, tens, hundreds and thousands	4Nn2	151			
		Understand what each digit represents in a three- or four-digit number and partition into thousands, hundreds, tens and units	4Nn3	151, 156, 161		151, 156, 194	
		Find multiples of 10, 100, 1000 more/less than a number	4Nn6	156, 161			
		Multiply and divide three-digit numbers by 10; begin to multiply numbers by 100 and perform related divisions	4Nn7	193			
	Numbers and the	Round three- and four-digit numbers to the nearest 10 or 100	4Nn9	173, 194			
	number system			151, 161, 183			
		Recognise odd and even numbers; Make general statements about the sums and differences of odd and even numbers		166			
		Order and compare two or more fractions with the same denominator	4Nn17	160, 175, 197			
		Recognise the equivalence between: $\frac{1}{2}$, $\frac{4}{8}$, and $\frac{5}{10}$; $\frac{1}{4}$ and $\frac{2}{8}$; $\frac{1}{5}$ and $\frac{2}{10}$; Use equivalence to help order fractions	4Nn18 4Nn19	160, 180, 191, 197			
NUMBER		Recognise mixed numbers and order on a number line	4Nn23	160, 191			
		Relate finding fractions to division; Find halves, quarters, thirds, fifths, eighths and tenths of shapes and numbers	4Nn24 4Nn25	160, 175, 180			
		Know multiplication for $2\times$, $3\times$, $4\times$, $5\times$, $6\times$, $9\times$ and $10\times$ tables and derive division facts	4Nc4	158, 165, 168, 171, 176, 181, 186	5, 190, 193, 196, 199	168, 176, 181, 186, 188, 196	MM Multiplication Sprints MM Division Sprints
		Recognise and begin to know multiples of 2, 3, 4, 5 and 10	4Nc5	158, 171, 176			
	Calculation: Mental strategies	Add three or four small numbers, finding pairs that equal 10 or 20; Add any pair of two-digit numbers	4Nc6 4Nc9	163, 173, 183, 188		154	MM Addition Sprints
		Subtract any pair of two-digit numbers	4Nc10	163, 173, 178, 183, 188		154, 178, 183, 195	MM Subtraction Sprints
		Multiply any pair of single-digit numbers together; Use knowledge of commutativity	4Nc13 4Nc14	155, 158, 168, 171, 176, 181, 186	5, 188, 190		MM Multiplication Sprints MM Division Sprints
	Calculation:	Add pairs of three-digit numbers	4Nc17	170, 183			
	Addition and subtraction	Subtract a two-digit number from a three-digit number; Subtract pairs of three-digit numbers	4Nc18 4Nc19	178, 183		178, 183, 195	
	Calculation:	Multiply a two-digit number by a single-digit number	4Nc22	171			
	Multiplication and division	Understand that multiplication and division are the inverse function of each other	4Nc25	181, 190, 199			







STAG	E 4 con	tinued ()	8	Mathseeds Lesson		Additional Mathseeds Resources	
				Knowledge and Skills	Assessment	Higher Order Thinking Skills	Fluency
Content areas	Topics	Learning objectives	Codes	Online Lesson, Printable Resources, & Problem Solving Tasks	End-of-lesson Quiz	Critical Thinking and Problem Solving Interactives	Mental Minute (MM)
		Identify, describe, visualise, draw and make a range of 2D and 3D shapes; Find examples in the environment and art	4Gs1 4Gs5	169, 184			
	Shapes and	Classify polygons (including quadrilaterals)	4Gs2	177, 184			
GEOMETRY	geometric reasoning	Identify and sketch lines of symmetry in 2D shapes and patterns; Find examples of symmetry in the environment and in art	4Gs3 4Gs5	152			
		Visualise 3D objects from 2D nets and drawings and make nets of common solids	4Gs4	169			
	Position and movement	Describe and identify the position of a square on a grid of squares where rows and columns are numbered and/or lettered	4Gp1	164			
		Choose and use standard metric units and their abbreviations (km, m, cm, mm); Know and use the relationships between familiar units of length; know the meaning of 'kilo', 'centi' and 'milli'; Interpret intervals/divisions on scales and record readings accurately	4Ml1 4Ml2 4Ml4	182, 198			
	Length, mass and capacity	Choose and use standard metric units and their abbreviations (kg, g); Know and use the relationships between familiar units of mass; know the meaning of 'kilo'; Interpret intervals/divisions on partially numbered scales and record readings accurately	4Ml1 4Ml2 4Ml4	172			
		Choose and use standard metric units and their abbreviations (I and mI); Know and use the relationships between familiar units of capacity; know the meaning of 'milli'; Interpret intervals/divisions on partially numbered scales and record readings accurately	4Ml1 4Ml2 4Ml4	154		154	
445.A.C.I.IDE		Read and tell the time to nearest minute on 12-hour digital and analogue clocks	4Mt1	162, 179, 185			
MEASURE	Time	Use a.m., p.m. and 12-hour digital clock notation	4Mt2	162, 179, 189			
		Read simple timetables and use a calendar	4Mt3	189			
		Choose units of time to measure time intervals	4Mt4	179			
	Area and narimeter	Draw rectangles, and measure and calculate their perimeters	4Ma1	192			
	Area and perimeter	Understand that area is measured in square units, e.g. cm²; Find the area of rectilinear shapes drawn on a square grid by counting squares	4Ma2 4Ma3	157, 200			
HANDLING DATA	Organising, categorising and representing data	Answer a question by identifying what data to collect, organising, presenting and interpreting data in tables, diagrams, tally charts, frequency tables, pictograms and bar charts	4Dh1	167, 174, 187, 198			
		Choose appropriate mental or written strategies to carry out calculations involving addition or subtraction	4Pt1	153, 159, 183, 188, 195		154, 159, 163, 182, 188, 193, 196	
		Understand everyday systems of measurement in length, weight, capacity and time and use these to solve simple problems as appropriate	4Pt2	154, 172, 198		154	
	Using techniques and skills in solving	Check subtraction by adding the answer to the smaller number in the original calculation	4Pt4	183			
	mathematical problems	Check the result of a division using multiplication	4Pt6	190			
PROBLEM SOLVING		Recognise relationships between 2D shapes and identify the differences and similarities between 3D shapes	4Pt7	169, 184			
		Estimate and approximate when calculating	4Pt8	194			
	Using	Explore and solve number problems and puzzles	4Ps4	153		153, 161, 194, 199	
	understanding and strategies in	Describe and continue number sequences, identifying the relationship between each number	4Ps6	153		153, 168, 187, 195	
	solving problems	Identify simple relationships between shapes	4Ps7	169			