3.3	Fluency Focus	NC Objectives	Remember (Prior knowledge) See Progression Maps KS1 and KS2 NCETM	Know (New knowledge)	Mathematics Guidance June 2020 Ready-to-progress criteria
	Number and place value.	count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal	recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or	LO: Know how to make a whole LO: Know what a tenth is and how many tenths are in one	3F–1 Interpret and write proper fractions to represent 1 or several parts
	Questions similar to the following from NFER Spring Arithmetic Yr 3 test:	parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions	quantity write simple fractions e.g. 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.	whole LO: Know how to count in tenths LO: Know how to write tenths as a decimal	of a whole that is divided into equal parts. 3F–2 Find unit fractions of quantities using known division facts (multiplication
1	Q1 – sequencing Q2 – ordering	with small denominators recognise and use fractions as			tables fluency). 3F–3 Reason about the
25 th – 29 th Apr	Q7 – write numbers Q8 – sequencing Q11 – match	numbers: unit fractions and non- unit fractions with small denominators			location of any fraction within 1 in the linear number system.
Fractions	numbers Q12 – sequencing	recognise and show, using diagrams, equivalent fractions with small denominators add and subtract fractions with the same denominator within one whole [for example 5/7 + 1/7 = 6/7] compare and order unit fractions,			3F–4 Add and subtract fractions with the same denominator, within 1.
		and fractions with the same denominators solve problems that involve all of the above			

Addition	count up and down in tenths:	recognise find name and write	I.O. Know how to write	2E 1 Interpret and write
Addition.		3 , ,		3F–1 Interpret and write
	recognise that tenths arise from	fractions 1/3, 1/4, 2/4 and 3/4 of	fractions onto a number line	proper fractions to
Questions similar to	dividing an object into 10 equal	a length, shape, set of objects or	LO: Know how to find a unit	represent 1 or several parts
the following from	parts and in dividing one-digit	quantity	fraction of an amount (please	of a whole that is divided
NFER Spring	numbers or quantities by 10	write simple fractions e.g. 1/2 of	ensure they multiply by the	into equal parts.
Arithmetic Yr 3 test:	recognise, find and write fractions	6 = 3 and recognise the	numerator after they have	3F–2 Find unit fractions of
	of a discrete set of objects: unit	equivalence of 2/4 and 1/2.	divided by the denominator)	quantities using known
Q3 – addition	fractions and non-unit fractions	,	LO: Know how to find a non-	division facts (multiplication
Q4 – 100 more	with small denominators		unit fraction of an amount	tables fluency).
Q9 – addition	recognise and use fractions as		LO: Solve fraction of amount	3F–3 Reason about the
•	3		problems (x 2 Jessons)	location of any fraction
			problems (x 2 resserts)	within 1 in the linear
·				number system.
Q18 addition				3F–4 Add and subtract
				fractions with the same
	small denominators			denominator, within 1.
	add and subtract fractions with the			
	same denominator within one			
	whole [for example $5/7 + 1/7 = 6/7$]			
	and fractions with the same			
	·			
	the following from NFER Spring Arithmetic Yr 3 test: Q3 – addition	Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q3 – addition Q4 – 100 more Q9 – addition Q15 – more and less Q16 – addition Q18 – addition Q19	Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q3 – addition Q4 – 100 more Q9 – addition Q18 – add	Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and use fractions and non-unit fractions on unit fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators add and subtract fractions with the same denominators with the same denominators solve problems that

3 9 th – 13 th	Subtraction. Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q6 – subtraction Q19 – subtraction Q22 – subtraction	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 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and use fractions as	recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity write simple fractions e.g. 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.	LO: Know how to write equivalent fractions (abstract / pictorial) (x 3 lessons – take your time on this) LO: Know how to compare unit fractions LO: Know how to compare non-unit fractions	3F–1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. 3F–2 Find unit fractions of quantities using known division facts (multiplication tables fluency). 3F–3 Reason about the
Fractions		unit fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators add and subtract fractions with the same denominator within one whole [for example 5/7 + 1/7 = 6/7] compare and order unit fractions, and fractions with the same			within 1 in the linear number system. 3F–4 Add and subtract fractions with the same denominator, within 1.
		denominators solve problems that involve all of the above			

				I to the second	1 a= 4 · · · · · ·
	Multiplication and	count up and down in tenths;	recognise, find, name and write	LO: Know how to order unit	3F–1 Interpret and write
	division.	recognise that tenths arise from	fractions 1/3, 1/4, 2/4 and 3/4 of	fractions	proper fractions to
		dividing an object into 10 equal	a length, shape, set of objects or	LO: Know how to order non-	represent 1 or several parts
	Questions similar to	parts and in dividing one-digit	quantity	unit fractions with the same	of a whole that is divided
	the following from	numbers or quantities by 10	write simple fractions e.g. 1/2 of	denominators	into equal parts.
	NFER Spring	recognise, find and write fractions	6 = 3 and recognise the	LO: Add and subtract fractions	3F–2 Find unit fractions of
	Arithmetic Yr 3 test:	of a discrete set of objects: unit	equivalence of 2/4 and 1/2.	with the same denominator	quantities using known
		fractions and non-unit fractions		LO: Know how many degrees	division facts (multiplication
	Q5 – division	with small denominators		are in a turn (½ , ¼, ¾)	tables fluency).
4	Q13 – multiplication	recognise and use fractions as		LO: Know how many right	3F–3 Reason about the
$16^{th} - 20^{th}$	and division	numbers: unit fractions and non-		angles are in a turn (½ , ¼, ¾)	location of any fraction
May	Q21 – multiples	unit fractions with small			within 1 in the linear
	Q24 – division	denominators			number system.
Fractions		recognise and show, using			3F-4 Add and subtract
		diagrams, equivalent fractions with			fractions with the same
		small denominators			denominator, within 1.
		add and subtract fractions with the			
		same denominator within one			
		whole [for example $5/7 + 1/7 = 6/7$]			
		compare and order unit fractions,			
		and fractions with the same			
		denominators solve problems that			
		involve all of the above			
	Multiplication and	draw 2-D shapes and make 3-D	identify and describe the	LO: Know how to compare	3G-1 Recognise right angles as a
	division.	shapes using modelling materials;	properties of 2-D shapes,	angles (larger than or smaller	property of shape or a
		recognise 3-D shapes in different	including the number of sides	than a right angle)	description of a turn, and identify
	Questions similar to	orientations and describe them	and line symmetry in a vertical	LO: Know how to draw	right angles in 2D shapes
	the following from	recognise angles as a property of	line	horizontal and vertical lines	presented in different
5	NFER Spring	shape or a description of a turn	identify and describe the	accurately	orientations.
23 rd - 27 th	Arithmetic Yr 3 test:	identify right angles, recognise that	properties of 3-D shapes,	LO: Identify parallel and	3G–2 Draw polygons by joining
May		2 right angles make a half-turn, 3	including the number of edges,	perpendicular lines	marked points, and identify
	Q5 – division	make three-quarters of a turn and	vertices and faces	LO: Know how to recognise,	parallel and perpendicular sides.
Shape	Q13 – multiplication	4 a complete turn; identify whether	identify 2-D shapes on the	describe and draw 2d shapes	
	and division	angles are greater than or less than	surface of 3-D shapes, [for	LO: Know how to make 3d	
	Q21 – multiples	a right angle	example, a circle on a cylinder	shapes, to then recognise,	
	Q24 – division	identify horizontal and vertical lines	and a triangle on a pyramid]	describe and draw them	
		and pairs of perpendicular and	compare and sort common 2-D		
		parallel lines	and 3-D shapes and everyday		
			objects		

нт					
6 6 th — 10 th June Time	Practions. Questions similar to the following from NFER Spring Arithmetic Yr 3 test:	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time	compare and sequence intervals of time	LO: Know o'clock and half past LO: Know quarter past and quarter to LO: Know the months of the year and how many days are in each LO: Know how many hours are	
	Q14 – fraction of amount Q20 – fraction of amount Q23 – fraction of shape	in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example, to calculate the time taken by particular events or tasks]		in one day, and use the language of noon, midday and midnight (not AM and PM)	
7 13 th – 17 th June Time	Fractions. Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q10 – adding fractions Q17 – subtracting fractions Q26 – adding/ subtracting fractions	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example, to calculate the time taken by particular events or tasks]	compare and sequence intervals of time	LO: Know how to tell the time to the nearest five minutes using 'past' and 'to' (x2 lessons) LO: Know the difference between AM and PM LO: Know how to tell the time on a digital clock LO: Know how to find the duration of an event LO: Know how to compare the duration of two or more different events	

		T	T .	T	
	Multiplication facts	tell and write the time from an	compare and sequence intervals	LO: Know how to identify start	
		analogue clock, including using	of time	and end times when provided	
		Roman numerals from I to XII, and		with the duration	
		12-hour and 24-hour clocks		LO: Know how to measure in	
		estimate and read time with		seconds, and convert minutes	
		increasing accuracy to the nearest		to seconds	
8		minute; record and compare time		LO: Know how to compare	
$20^{th} - 24^{th}$		in terms of seconds, minutes and		lengths of time in seconds	
June		hours; use vocabulary such as		LO: Know how to compare	
		o'clock, am/pm, morning,		mass using "lighter" and	
Time		afternoon, noon and midnight		"heavier"	
		know the number of seconds in a		LO: Know how to measure	
		minute and the number of days in		mass	
		each month, year and leap year			
		compare durations of events [for			
		example, to calculate the time			
		taken by particular events or tasks]			
9				NFER Maths Summer Year 3	
27 th - 1 st				Arithmetic paper	
July				Reasoning paper 1	
'				Reasoning paper 2	
Moderati					
on					
	Multiplication facts	measure, compare, add and	compare and order mass,	LO: Know how to measure	
	·	subtract: lengths (m/cm/mm);	volume/capacity and record the	mass in kilograms and grams	
		mass (kg/g); volume/capacity (l/ml)	results using >, < and =	LO: Know how to compare	
10		1 5.5	choose and use appropriate	mass by comparing kilograms	
4 th – 8 th			standard units to estimate and	to grams	
July			measure mass (kg/g); capacity	LO: Know how to add and	
'			(litres/ml) to the nearest	subtract mass	
Mass and			appropriate unit, using scales and	LO: Know how to compare	
capacity			measuring vessels	volume using "more" or "less"	
			0	LO: Know how to measure	
				capacity (ml, then moving to l	
				and ml)	
L				4114 1111 <i>)</i>	

11 11 th – 15 th July Mass and capacity	Multiplication facts	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI)	compare and order mass, volume/capacity and record the results using >, < and = choose and use appropriate standard units to estimate and measure mass (kg/g); capacity (litres/ml) to the nearest appropriate unit, using scales and measuring vessels	LO: Know how to compare capacity using "most full" and "least full" LO: Know how to add and subtract capacity LO: Know how to read and interpret the temperature	
12					