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
1 25th – 29th Apr **Fractions**	Number and place value. Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q1 – sequencing Q2 – ordering Q7 – write numbers Q8 – sequencing Q11 – match numbers Q12 – sequencing	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 numbers: unit fractions and non-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 denominators solve problems that involve all of the above	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 make a whole LO: Know what a tenth is and how many tenths are in one whole LO: Know how to count in tenths LO: Know how to write tenths as a decimal	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 location of any fraction within 1 in the linear number system. 3F–4 Add and subtract fractions with the same denominator, within 1.

2 2nd – 6th May **Fractions**	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	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 numbers: unit fractions and non-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 denominators solve problems that involve all of the above	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 fractions onto a number line LO: Know how to find a unit fraction of an amount (please ensure they multiply by the numerator after they have divided by the denominator) LO: Know how to find a non-unit fraction of an amount LO: Solve fraction of amount problems (x 2 lessons)	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 location of any fraction within 1 in the linear number system. 3F–4 Add and subtract fractions with the same denominator, within 1.

3 9th – 13th May **Fractions**	Subtraction. Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q6 – subtraction Q19 – subtraction Q22 – subtraction Q25 – inverse	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 numbers: unit fractions and non-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 denominators solve problems that involve all of the above	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 location of any fraction within 1 in the linear number system. 3F–4 Add and subtract fractions with the same denominator, within 1.

4 16th – 20th May **Fractions**	Multiplication and division. Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q5 – division Q13 – multiplication and division Q21 – multiples Q24 – division	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 numbers: unit fractions and non-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 denominators solve problems that involve all of the above	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 order unit fractions LO: Know how to order non-unit fractions with the same denominators LO: Add and subtract fractions with the same denominator LO: Know how many degrees are in a turn (½ , ¼, ¾) LO: Know how many right angles are in a turn (½ , ¼, ¾)	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 location of any fraction within 1 in the linear number system. 3F–4 Add and subtract fractions with the same denominator, within 1.
5 23rd – 27th May **Shape**	Multiplication and division. Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q5 – division Q13 – multiplication and division Q21 – multiples Q24 – division	draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them recognise angles as a property of shape or a description of a turn identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D and 3-D shapes and everyday objects	LO: Know how to compare angles (larger than or smaller than a right angle) LO: Know how to draw horizontal and vertical lines accurately LO: Identify parallel and perpendicular lines LO: Know how to recognise, describe and draw 2d shapes LO: Know how to make 3d shapes, to then recognise, describe and draw them	3G–1 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations. 3G–2 Draw polygons by joining marked points, and identify parallel and perpendicular sides.

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6 6th – 10th June **Time**	Fractions. Questions similar to the following from NFER Spring Arithmetic Yr 3 test: Q14 – fraction of amount Q20 – fraction of amount Q23 – fraction of shape	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 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 in one day, and use the language of noon, midday and midnight (not AM and PM)	
7 13th – 17th 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	

8 20th – 24th June **Time**	Multiplication facts	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 identify start and end times when provided with the duration LO: Know how to measure in seconds, and convert minutes to seconds LO: Know how to compare lengths of time in seconds LO: Know how to compare mass using "lighter" and "heavier" LO: Know how to measure mass	
9 27th – 1st July **Moderation**				NFER Maths Summer Year 3 Arithmetic paper Reasoning paper 1 Reasoning paper 2	
10 4th – 8th July **Mass and capacity**	Multiplication facts	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	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 measure mass in kilograms and grams LO: Know how to compare mass by comparing kilograms to grams LO: Know how to add and subtract mass LO: Know how to compare volume using "more" or "less" LO: Know how to measure capacity (ml, then moving to l and ml)	

11 11th – 15th July **Mass and capacity**	Multiplication facts	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	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	
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