

2.2	Fluency Focus	NC Objectives	Remember (Prior knowledge)	Know (New knowledge)	Mathematics Guidance June 2020 Ready-to-progress criteria
1	Mastering Number	<p>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</p> <p>identify and describe the properties of 3-D shapes, including the number of edges, vertices and face</p> <p>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p> <p>compare and sort common 2-D and 3-D shapes and everyday objects.</p>		<p>LO: Recognise 2d and 3d shapes</p> <p>LO: Know the amount of sides and vertices on a 2d shape</p> <p>LO: Know how to make and draw 2d shapes</p> <p>LO: Know if shapes are symmetrical or not</p> <p>LO: Know how to sort 2d shapes</p>	<p>Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another.</p>
2	Mastering Number	<p>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</p> <p>identify and describe the properties of 3-D shapes, including the number of edges, vertices and face</p> <p>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p> <p>compare and sort common 2-D and 3-D shapes and everyday objects.</p>		<p>LO: Know how to make and describe patterns using 2d shapes</p> <p>LO: Know the amount of faces, edges and vertices on 3d shapes</p> <p>LO: Know how to sort 3d shapes</p> <p>LO: Know how to make and describe patterns with 3d shapes</p>	<p>Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another.</p>

3	Mastering Number	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	recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	Equal and unequal groups / parts Recognise $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$ (x 1 – 2 lessons) Find $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{2}{2}$, $\frac{4}{4}$, $\frac{3}{3}$ (x 2 – 3 lessons)	
4	Mastering Number	write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.		Identify unit and non-unit fractions Understand the equivalence of $\frac{1}{2}$ and $\frac{1}{4}$ Count in fractions	
5	Mastering Number	choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); to the nearest appropriate unit, using rulers	measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds) compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later]	Use non-standard and standard units to measure length (cm and m) (x 2 lessons) Compare and order lengths and heights 4 operations with lengths (x 2 lessons)	-Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?". -Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two digit number. -Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.

6		-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). -order and arrange combinations of mathematical objects in patterns and sequences	describe position, direction and movement, including half, quarter and three-quarter turns.	Describe a movement on a grid Describe turns Describe both movements and turns (x 2 lessons) Make patterns with shapes	Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another.
7		-compare and sequence intervals of time -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	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	Understand o'clock and half past Understand quarter past and quarter to (make link to describing turns from previous week) (x 2 lessons) Understand time within 5 minutes (x 2 lessons)	
8		-know the number of minutes in an hour and the number of hours in a day.	recognise and use language relating to dates, including days of the week, weeks, months and years sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	Identify hours in a day, and minutes in an hour Find durations of time (x 2 lessons) Compare durations of time (x 2 lessons)	

9		<p>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</p> <p>compare and order lengths, mass, volume/capacity and record the results using >, < and =</p>	<p>Mastering Number Material (2/3)</p> <p>measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds) (1/3)</p>	<p>LO: Know the meaning of weight and mass</p> <p>LO: Know how to measure mass</p> <p>LO: Know how to compare mass</p> <p>LO: Know how to measure mass in grams</p> <p>LO: Know how to measure mass in kilograms</p>	<p>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</p>
10		<p>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</p> <p>compare and order lengths, mass, volume/capacity and record the results using >, < and =</p>	<p>Mastering Number Material (2/3)</p> <p>measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds) (1/3)</p>	<p>LO: Know the meaning of capacity and volume</p> <p>LO: Know how to measure capacity</p> <p>LO: Know how to compare volume</p> <p>LO: Know how to measure in millilitres</p> <p>LO: Know how to measure in litres</p>	<p>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</p>
11		<p>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</p> <p>compare and order lengths, mass, volume/capacity and record the results using >, < and =</p>	<p>Mastering Number Material (2/3)</p> <p>measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds) (1/3)</p> <p>read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (1/3)</p>	<p>LO: Know how to measure the temperature</p> <p>LO: Know the formal written method for addition with 2 digit numbers (no carries) (x 2 lessons)</p> <p>LO: Know the formal written method for addition with 2 digit numbers (with carries) (x 2 lessons)</p>	<p>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.</p>

12			<p>Mastering Number Material (2/3)</p> <p>read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (1/3)</p>	<p>LO: Know the formal written method for subtraction with 2 digit numbers (no carries) (x 2 lessons)</p> <p>LO: Know the formal written method for subtraction with 2 digit numbers (carries) (x 2 lessons)</p>	
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