

## ST. JOHN BOSCO RC PRIMARY SCHOOL

	Long Term Pl	an	Ready to Pr	ogress Criteria/ Assessme	ent Guidance	Year Group:	4
	Autu	Autumn Term		ng Term	Summer Term		
	1st Half	2 <sup>nd</sup> Half	1st Half	2 <sup>nd</sup> Half	1st Half	2 <sup>nd</sup> Half	i
Number and	Number and Place Value	4NPV-3 Four-digit numbers in					
Place Value	4NPV-1 Know that 10	the linear number system					
	hundreds are equivalent to	Reason about the location of any					
	1 thousand, and that 1,000	four-digit number in the linear					
	is 10 times the size of 100;	number system, including					
	apply this to identify and	identifying the previous and next					
	work out how many 100s	multiple of 1,000 and 100, and					
	there are in other four-digit	rounding to the nearest of each					
	multiples of 100.	• Using a number line. Which					
	• How many 100g	2 numbers round to 5,600					
	servings of rice are	when rounded to the nearest					
	there in a 2,500g bag?	hundred? b. Round each					
	• One large desk costs a	number to the nearest					
	school $f_{100}$ . How	thousand. Estimate the					
	much will 14 large	value of each number					
	desks cost?	• Estimate how much liquid is					
	• My school field is	in the beaker. Estimate how					
	100m long. How many	much liquid needs to be					
	times do I have to run	added to make 1 litre.					
	its length to run 3km?	• Estimate and mark the					
	• My cup contains 100	position of 600g on this					
	ml of fizzy drink. The	scale.					
	bottle contains 10	• The bar chart shows the					
	times as much. How	number of red and blue cars					
	many millilitres are	that passed a school in one					
	there in the bottle?	day. Estimate the number					
	• A rhino mother weighs	of red and blue cars that					
	about 1,000kg. She	passed the school on this					
	weighs about 10 times	day. Estimate the number of					
	as much as her baby.	blue cars that passed the					
	What is the	school on this day. Add the					
	approximate weight of	following data for other					
	the baby rhino?	coloured cars to the bar					
	• Circle the lengths that	chart					
	could be made using 1	• Fill in the missing numbers.					
	metre (100cm) sticks.	4NPV-4 Reading scales with 2,					
	4NPV-2 Place value in	4, 5 or 10 intervals					
	four-digit numbers	Divide 1,000 into 2, 4, 5 and 10					

Recognise the place value	equal parts and read		
of each digit in four-digit	scales/number lines marked in		
numbers, and compose and	multiples of 1.000 with 2, 4, 5		
decompose four-digit	and 10 equal parts.		
numbers using standard	• Fill in the missing numbers		
and non-standard	• What is the reading on each		
partitioning.	• what is the reaching on each		
• Complete the	of these scales?		
calculations	• Fill in the missing numbers.		
football stadium son	• What is the reading on each		
lootball stadium can     hold ( 420 poople So	of these scales?		
for 4 000 tickets have	<ul> <li>The beaker contains 1 litre</li> </ul>		
have add for a match	of water. If I pour out		
How many tickets are	600ml, how much is left?		
loft?	Mark the new water level on		
	the picture.		
• On a field trip, the	• A motorway repair team can		
children need to walk	build 250m of motorway		
4,200m. So far they	barrier in 1 day. In 5		
have walked 5km.	working days, how many		
How much further do	metres of motorway barrier		
they have to walk?	can they build?		
• Mr. Davis has 2 cats.	<ul> <li>How many 500ml bottles</li> </ul>		
One cat weighs 4,200g.	can I fill from a 3 litre		
The other cat weighs	container of water?		
3,050g. Their basket	• The pictogram shows how		
weighs 2kg. How	many cans a class recycled in		
much does the basket	2020. How many cans did		
weigh with both cats	the class recycle in 2020?		
inside it?	• 1kg of strawberries is shared		
	equally between 5 people.		
	How many grams of		
	strawberries do they each		
	get?		
	• I have already swum 750m.		
	How much further do I		
	need to go to swim 2km?		
	• Fill in the missing parts, and		
	write as many different		
	equations as you can think		
	of to describe the structure.		
	• The bar charts show the		
	number of red and blue cars		
	that passed 3 different		
	schools on a given day. How		
	many red and blue cars		

		passed each school?				
		• Fill in the missing numbers.				
	Addition and Subtraction	Multiplication and Division	Multiplication and	Number: Fractions	Number: Fractions	
Addition and	Addition and subtraction:	4NF–3 Scaling number facts by	Division	4F–1 Mixed numbers in	4F–3 Add and subtract	
Subtraction	extending 3AS–3	100. Apply place-value	4NF–1 Recall of	the linear number system	improper and mixed	
	Pupils should also	knowledge to known additive	multiplication tables.	Reason about the location	fractions (same	
Multiplication	extend columnar	and multiplicative number facts	Recall multiplication	of mixed numbers in the	denominator)	
and Division	addition and	(scaling facts by 100)	and division facts up to	linear number system.	Add and subtract	
	subtraction methods	• I need lkg of flour to make	products in	Add labels to each	fractions with the same	
Fractions	to four-digit numbers.	Some bread. I have 800g.	multiplication tables as	lines	denominator including	
	• Pupils must be able to	flour do L peed?	multiples of the	What are the values of	bridging whole numbers	
	numbers using	• A builder can buy bricks in	corresponding number.	• what are the values of	• It is a $2^{3/4}$ km cycle	
	columnar addition	pallets of 600. How many	A regular hexagon	• Estimate the position	ride to my friend's	
	including calculations	pallets should she buy if she	has sides of 7cm.	of the following	house, and a further	
	whose addends have	needs 1,800 bricks?	What is its	numbers on the	$\frac{3}{4}$ km ride to the	
	different numbers of	• Dexter ran round a 400m	perimeter?	number line.	park. How far do I	
	digits.	running track 6 times. How	A regular octagon	• How much water is in	have to cycle	
	• For calculations with	far did he run?	has a perimeter of	the beaker? Write your	altogether?	
	more than 2 addends,	• I mix 700ml of orange juice	72cm. What is the	answer as a mixed	• I have 5m of rope. I	
	pupils should add the	and 600ml of lemonade to	length of each of	number.	cut off $4/10$ m.	
	digits within a column	make a fruit drink for a	the sides?	• Circle the larger	How much rope is	
	in the most efficient	party. What volume of fruit	• It takes Latoya 8	number in each of		
	order. For the third	drink have I made in total?	minutes to walk to	these pairs. Explain	• Fill in the missing	
	example above,	• A farmer had 1,200m of	Tatsuo 3 times as	your reasoning.	numbers.	
	include: beginning by	fencing to put up round his	long How long	4F–2 Convert between	• The table below	
	making 10 in the ones	fields. He put up the same	does it take Tatsuo	mixed numbers and	of hours losie read	
	column. making	and it took him 6 days to	to walk to school?	Convert mixed numbers to	each day during a	
	double-6 in the	put up all the fencing. How	• An egg box	improper fractions and vice	school week. For	
	hundreds column	many metres of fencing did	contains 6 eggs. I	versa.	how long did Josie	
	• Pupils must be able to	he put up each day?	need 54 eggs. How	Which of these	read altogether?	
	subtract one four-digit	• Fill in the missing numbers.	many boxes should	fractions are equivalent	• A tailor has 3 7/10	
	number from another	4MD-1 Multiplying and dividing	I buy?	to a whole number?	m of ribbon. She	
	using columnar	by 10 and 100. Multiply and	• 8 children spend a	Explain how you	uses 1 9/10 m to	
	subtraction. They	divide whole numbers by 10 and	day washing cars	know.	complete a dress.	
	should be able to apply	100 (keeping to whole number	and earn $\pounds 40$	• Express the following	How much ribbon is	
	the columnar method	quotients); understand this as	altogether. If they	mixed numbers as	left?	
	the subtrahend has	equivalent to making a number	snare the money	improper fractions.		
	fewer digits than the	10 or 100 times the size.	do they each get?	• Express the following		
	minuend, and must be	• Fill in the missing numbers	• Circle the numbers	improper fractions as		
	able to exchange	• Bethany has 15 marbles.	that are multiples	mixed numbers.		
	through 0.	Nasir has 100 times as	of 3.	• Sarah wants to convert		
	Pupils should make	does Nasir baye?		1//4 to a mixed		
	sensible decisions	uoes masii naver		number. She writes:		

about how and when	• Sumaya's walk from her	17/4 = 3 5/4 Explain	
to use columnar	home to school is 130m.	what mistake Sarah has	
subtraction. For	Millie's walk is 10 times as	made, and write the	
example, when the	far. How far does Millie	correct answer.	
minuend is a multiple	walk to get to school?	• The school kitchen has	
of 1,000, they may	4MD-2 Manipulating the	17 packs of butter.	
transform to an	multiplicative relationship	Each pack	
equivalent calculation	Manipulate multiplication and	weighs1/4kg How	
before using column	division equations and	many kilograms of	
subtraction avoiding	understand and apply the	butter do they have	
the need to exchange	commutative property of	altogether? Express	
through zeroes	multiplication	vour apswer as a mixed	
unougn zeroes.	I Using sisters of successful	pumber	
	• Using pictures of vases of		
	flowers, draw two pictures	• I have a 6 <sup>1</sup> / <sub>2</sub> m length	
	which can be represented by	of string. How many	
	the equation $5420 \times =$ .	1/2m lengths can I	
	• Write as many multiplication	cut?	
	and division equations as		
	you can to represent each		
	picture.		
	• Write a story that could be		
	represented by this equation		
	3x7=21		
	• Using pictures of apples in		
	bowls, draw 2 pictures		
	which can be represented by		
	the equation 18 divided by		
	3=6		
	• Use 15x16=240 to write 3		
	other related multiplication		
	and division equations.		
	• 45kg of animal feed is		
	shared between some		
	horses They each get 5kg		
	How many horses were		
	there?		
	1 m 40cm of ribbon was gut		
	into equal pieces. Each piece		
	is 14cm long. How many		
	pieces of ribbon are there?		
	• Fill in the missing numbers.		
	4NE 2 Division problems with		
	remainders		
	Solve division problems with		
	Solve uivision problems, with		
	two-digit dividends and one-digit		

	<ul> <li>divisors, that involve remainders, and interpret remainders appropriately according to the context.</li> <li>Which of these division calculations have the answer of 3 r 2?</li> <li>I have 60 metres of bunting for the school fair. What length of bunting will be left over if I cut it into lengths of 8 metres?</li> <li>32</li> <li>It takes 7 minutes to make a pom-pom. How many complete pom-poms can Malik make in 30 minutes?</li> <li>23 apples are shared equally between 4 children. How many whole apples does each child get?</li> <li>Ruby writes: 37 divided by 5= 6 r7 Explain what mistake Ruby has made, and write the correct answer.</li> <li>Decide whether each calculation has a remainder or not. Explain how you can do this without doing each calculation?</li> </ul>			
	calculation?			
Geometry	Measurement Length and	1		Geometry: Properties of
Geometry Measurement Statistics	Measurement Length and Perimeter4G-2 Perimeter: regular and irregular polygons Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the 			<ul> <li>Geometry: Properties of shape</li> <li>4G–3 Identify line</li> <li>symmetry in 2D shapes</li> <li>Identify line symmetry in</li> <li>2D shapes presented in</li> <li>different orientations.</li> <li>Reflect shapes in a line of</li> <li>symmetry and complete a</li> <li>symmetric figure or pattern</li> <li>with respect to a specified</li> <li>line of symmetry.</li> <li>Draw one or more</li> <li>lines of reflection</li> <li>symmetry in each of</li> <li>these irregular</li> </ul>

	• What is the perimeter of this		hexagons.
	shape?		• Reflect the three
	<ul> <li>Sarah drawa a rhombus with</li> </ul>		shapes in the mirror
	• Satali draws a filolibus with		line
	a perimeter of 30cm. What		
	is the length of each side?		• Complete the shape by
	<ul> <li>Here is a plan of a school</li> </ul>		reflecting it in the
	playground. How many		mirror line. Name the
	metres of fencing is needed		polygon that you have
	to put a fence around the		completed.
	perimeter?		• Draw a line of
	• Norre cost above and com		symmetry on each
	• Name each shape and say		shape. Are you able to
	whether it is regular or		draw more than one
	irregular. Explain your		draw more than one
	reasons.		line of symmetry on
			any of the shapes?
			Complete the
			symmetrical pattern.
			•
			Geometry: Position and
			Direction (2 weeks)
			4G-1 Draw polygons
			specified by coordinates or
			by translation
			Draw polygons, specified
			by coordinates in the first
			quadrant, and translate
			within the first quadrant.
			• Translate the
			quadrilateral so that
			point A moves to
			point B.
			• A kite has been
			translated from
			position A to position
			B Describe the
			translation
			• Mark the points, and
			join them to make a
			square.
			• This triangle is
			translated so that point
			A moves to $(4, 3)$ .
			Draw the shape in its
			new position.
			• Mark the following
			- mark the following
		1	points, and join them

			to make a polygon.
			What is the name of
			the polygon that you
			have drawn?
			• c. Translate the
			polygon you have just
			drawn left 2 and up 3.
			What are the
			coordinates of the
			vertices of this new
			polygon?