

ST. JOHN BOSCO RC PRIMARY SCHOOL

Long Term Plan			Ready to Pr	Year Group: 5				
	Autu	mn Term	Sprin	ng Term	Summer Term			
	1st Half	2 nd Half	1st Half	2 nd Half	1st Half	2 nd Half		
Number and Place Value	 Number and Place Value 5NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01. An apple weighs about 0.1kg. Approximately how many apples are there in a 1.8kg bag? I have a 0.35m length of wooden rod. How many 0.01m lengths can I cut it into? Mrs Jasper is juicing oranges. Each orange makes about 0.1 litres of juice. If Mrs Jasper juices 22 oranges, approximately how many litres of orange juice will she get? Circle all of the numbers that are equal to a whole number of tenths. Fill in the missing numbers. Match the numbers on the left with the equivalent fractions on the right. 	 5NPV-2 Place value in decimal fractions. Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning. Complete the calculations. Circle the numbers that add together to give a total of 0.14 Fill in the missing numbers. I have 3.7kg of modelling clay. If we use 2kg, how much will be left? I will use 0.65 litres of milk for one recipe, and 0.23 litres of milk for another. How much milk will I use altogether? Ilaria jumped 3.19m in a long jump competition. Emma jumped 3.12m. How much further did Ilaria jump than Emma? Maya cycled 7.3km to get to her friend's house, and then cycle altogether? 	 Decimals and percentages 5NPV-3 Decimal fractions in the linear number system Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. Place each of these numbers on the number line. The table shows how far some children jumped in a long-jump competition. Who jumped the furthest and won the competition? Who came third in the competition? How much further did Kagendo jump then Faisal? How much further did Ilaria jump than Charlie? Fill in the missing symbols (<, > or =). Here is a weighing 	 5NPV-4 Reading scales with 2, 4, 5 or 10 intervals Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts. Fill in the missing parts, and write as many different equations as you can think of to represent the bar model. Fill in the missing numbers 5 children have been growing sunflowers. The bar chart shows how tall each child's sunflower has grown. How tall is each flower?' The bar chart below shows long-jump distances for 6 children. How far did the winning child jump? What was the difference between the two longest jumps? Complete the labelling of these scales. What is the reading on each of these scales, in kilograms? Here is a 1 litre beaker with some liquid in. How much more 	 Decimals 5NF-2 Scaling number facts by 0.1 or 0.01 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth) Circle the numbers that sum to 0.13 Are these calculations correct? Mark each correct calculation with a tick and each incorrect calculation with a cross. Explain your answers. live 0.4km away from school. Every day I walk to school in the morning and home again in the afternoon. How far do I walk each day? How far do I walk in 5 days? Some children are making bunting for the school fair. If each child makes 0.4m of bunting, and there are 12 children, how many metres of bunting do they make altogether? A chef needs 2.4kg 	Place value concepts will continue to be a focus in the remaining terms as part of memory jogger and daily maths meetings		

			 scale. Estimate the mass in kilograms that the arrow is pointing to. Estimate and mark the position of 0.7 litres on this beaker. Fill in the missing numbers. A farmer weighed each of 6 new-born lambs. Round the mass of each lamb to the nearest whole kilogram. I need 4.25 metres of ribbon. How much is this to the nearest tenth of a metre? How much is this to the nearest metre? If ribbon is sold only in whole metres, how many metres do I need to buy? 	 liquid, in litres, do I need to add to the beaker to make 1 litre? A motorway repair team can build 0.2km of motorway barrier in 1 day. In 6 working days, how many kilometres of motorway barrier can they build? How many 0.25 litre servings of orange juice are there in a 2 litre carton? 0.25m of ribbon costs £1. How much does 2m of ribbon cost? Fill in the missing numbers. Here is a part of a number line divided into 4 equal parts. In which section (a, b, c or d) does each of these numbers belong? Explain your answers. 	 of potatoes for a recipe. If one potato weighs about 0.3kg, approximately how many potatoes does the chef need? A bottle contains 0.7 litres of fruit drink. Maria need 5 litres of drink for a party. How many bottles does she need to buy? I need 0.5kg of brown flour and 0.7kg of white flour for a recipe. What is the total mass of flour that I need? What is the total volume of liquid in these measuring beakers, in litres?
Addition and Subtraction	 Addition and Subtraction Addition and subtraction: extending 3AS-3 Pupils should also 	Multiplication and Division 5NF–1 Secure fluency in multiplication and division facts Secure fluency in multiplication	Multiplication and Division 5MD–3 Multiply using a formal written	Number: Fractions 5F–1 Find non-unit fractions of quantities Find non-unit fractions of	
Multiplication and Division	extend columnar addition and subtraction methods	table facts, and corresponding division facts, through continued practice.	method. Multiply any whole number with up to 4 digits by any one-	 quantities Stan bought 15 litres of paint and used 2/3 	
Fractions	 to numbers with up to 2 decimal places. Pupils must be able to add 2 or more numbers using columnar addition, including calculations 	• Assessment for this criterion should focus on whether pupils have fluency in multiplication facts and division facts. Pupils can be assessed through a time- limited written check.	 digit number using a formal written method. Fill in the missing numbers Draw a line to match each multiplication 	 of it decorating his house. How much paint has he used? My granny lives 120km from us. We are driving to see her and are 5/6 of the way 	
	whose addends have different numbers of digits.For calculations with	5MD–1 Multiplying and dividing by 10 and 100 Multiply and divide numbers by	 expression with the correct addition expression. Josh cycles 255 	there. How far have we driven so far?I am 3/4 of the way through my holiday. I	

		1			
	more than 2 addends,	10 and 100; understand this as		metres in 1 minute.	have 3 days of holiday
	pupils should add the	equivalent to making a number		If he keeps cycling	left. How many days
	digits within a column	10 or 100 times the size, or 1		at the same speed,	have I already been on
	in the most efficient	tenth or 1 hundredth times the		how far will he	holiday for?
	order. For the third	size.		cycle in 8 minutes?	• A school is trying to
	example above,	• Fill in the missing numbers	•	A factory packs	raise $f_{7,500}$ for
	efficient choices could	 Ruby ran 2.3km. Her mum 		biscuits into boxes	charity. They have
	include: beginning by	ran 10 times this distance.		of 9. The factory	raised 5/6 of the total
	making 10 in the	How far did Ruby's mum		produces 1,350	so far. How much
	tenths column.	-		packets of biscuits	have they raised?
	making double-6 in the	run?		in a day. How	
	ones column	• A zookeeper weighs an		many biscuits is	• 4/5 of the runners in a
	Pupils must be able to	adult gorilla and its baby.		that?	race have finished the
	subtract one number	The adult gorilla has a mass			race so far. If 92
	from another using	of 149.3kg. The baby gorilla	•	Ellen has 1 large	people have finished,
	columnar subtraction,	has a mass one-tenth times		bag of 96 marbles,	how many runners
	including numbers	that of the adult gorilla.		and 4 smaller bags	were in the race
	with up to 2 decimal	How much does the baby		each containing 76	altogether?
		gorilla weigh, in kilograms?		marbles. How	• There are 315 cows on
	places. They should be	• The length of a new-born		many marbles does	a farm. 3/5 of the
	able to apply the columnar method to	crocodile is about 0.25m.		she have	cows are having calves
		The length of an adult		altogether?	this year. How many
	calculations presented as, for example, 21.8–	female crocodile is about	•	There are 6 eggs in	cows are not having
	9.29 or 5814.69–,	2.5m. Approximately how		a box. If a farmer	calves?
		many times as long as a		needs to deliver	5F–2 Find equivalent
	where the subtrahend has more decimal	new-born crocodile is an		1,275 boxes of eggs	fractions. Find equivalent
		adult female crocodile?		to a supermarket,	fractions and understand
	places than the	5MD-2 Find factors and		how many eggs	that they have the same
	minuend. Pupils must	multiples. Find factors and		does she need?	value and the same position
	also be able to	multiples of positive whole	•	Aryan's	in the linear number
	exchange through 0.	numbers, including common		grandmother lives	system.
•	Pupils should make	factors and common multiples,		235 kilometres	• Find different ways to
	sensible decisions	and express a given number as a		away from Aryan.	write the fraction of
	about how and when	product of 2 or 3 factors.		His aunt lives 3	each shape or quantity
	to use columnar	• Write all of the numbers		times that distance	that is shaded or
	methods. For example,	from 1 to 30 in the correct		away from Aryan.	highlighted.
	when subtracting a	places on this Venn		How far away does	Draw lines to match
	decimal fraction from	diagram.		Aryan's aunt live	the unit fractions on
	a whole numbers,	 Circle any number that is a 		from him? How far	the left with their
	pupils may be able to	multiple of both 3 and 7.		is this to the	equivalent fractions on
	use their knowledge of	*		nearest 100	the right.
	complements, avoiding			kilometres?	Mark each fraction on
	the need to exchange	and 64 that is greater than 6.	•	Felicity can make 5	the number line.
	through zeroes. For	How many common		hairbands in 1	
	example, to calculate	multiples of 4 and 6 are		hour. A factory can	• Use the numbers 3, 24,
	8–4.85 pupils should	there that are less than 40?		make 235 times as	8 and 1 to complete
	be able to work out	• Circle any number that is a		many. How many	this chain of equivalent
	that the decimal	factor of both 24 and 36			fractions.

complement to 5 from	• Find a multiple of 30 that is	hairbands can the	• Fill in the missing	
4.85 is 0.15, and that	between 200 and 300. Find a	factory make in 1	digits.	
the total difference is	multiple of 40 that is	hour?	Sally and Tahira each	
therefore 3.15.	between 300 and 400. Find	5MD-4 Divide using a	have a 1m ribbon.	
	a multiple of 50 that is	formal written method	 Sally cuts her ribbon 	
	between 400 and 500.	Divide a number with		
	 Show that 3 is a factor of 	up to 4 digits by a one-	into 5 equal parts and uses 1 of them to	
	231.	digit number using a	make a hair tie.	
		formal written method,		
		and interpret	• Tahira cuts her ribbon	
	examples of 2-, 3- and 4-	remainders	into 10 equal parts and	
	digit numbers that are	appropriately for the	uses 3 of them to	
	multiples of 9, 25 and 50.	context	make a bracelet. Have	
	• Give two 2-digit factors of	• Fill in the missing	Sally and Tahira used	
	270.	numbers	the same amount of	
	• Find 3 numbers which are		ribbon? Explain your	
	multiples of 25 but not	• I have 1 ¹ / ₂ litres of	answer.	
	multiples of 50.	juice which I need	5F–3 Recall decimal	
	• Fill in the missing numbers	to share equally	equivalents for common	
		between 6 glasses.	fractions. Recall decimal	
		How many	fraction equivalents for $\frac{1}{2}$,	
		millilitres of juice	$\frac{1}{4}$,1/5 and 1/10 and for	
		should I pour into	multiples of these proper	
		each glass?	fractions.	
		• school fair raises	• Fill in the missing	
		\pounds 5,164. The school	symbols ($<$, $>$ or =).	
		keeps 1/4 of the	Write these	
		money for new	measurements as	
		playground	mixed numbers	
		equipment and	• Write these	
		gives the rest to	measurements as	
		charity. How much	decimals.	
		money does the	 My brother weighs 	
		school keep?		
		• Fryderyk has saved	27.3kg. I weigh27 1/5 kg. How much more	
		4 times as much		
		money as his sister	than my brother do I	
		Gabriel. If	weigh?	
		Fryderyk has saved	• Year 6 set off on a $2\frac{3}{4}$	
		£348, how much	km woodland walk. By	
		has Gabriel saved?	lunch, they had walked	
		• A farmer has 3,150	1.75km. How much	
		eggs to pack into	further do they need to	
		boxes of 6. How	walk?	
		many boxes does	• Here are two parcels:	
		she need?	What is the total	
		 Sharif wants to 	combined weight of	
		Sharn wants to	the parcels, in	

						· · · · · · · · · · · · · · · · · · ·
			walk a long	kilograms?		
			distance, for	• Put each set of		
			charity, over 6	numbers in order from		
			weekends. The	smallest to greatest.		
			total distance Sharif	C		
			wants to walk is			
			293km.			
			Approximately			
			how far should he			
			walk each			
			weekend?			
			 Maria makes 			
			1,531g of cake mix.			
			She puts 250g into			
			a small cake tin and			
			wants to share the			
			rest equally			
			between 3 large			
			cake tins. How			
			many grams of			
			cake mix should			
			she put in each			
			large cake tin?			
			• 174 children are			
			going on a trip. 4			
			children can fit into			
			each room in the			
			hostel. How many			
			rooms are needed?			
Geometry	Statistics (2 weeks)	Measurement: Perimeter and			Geometry: Properties	Geometry: Position and
2	To interpret charts	Area			of shape	Direction (2 weeks)
Measurement	 To use charts to solve 	5G–2 Compare and calculate			5G–1 Compare, estimate,	To describe position
Wicasurchicht	comparison, sum and	areas. Compare areas and			measure and draw angles	 To describe position To draw position on a
0	difference problems	calculate the area of rectangles			Compare angles, estimate	-
Statistics	*	(including squares) using			and measure angles in	grid
	• To use line graphs	standard units.			degrees (°) and draw	• To find position in the
	• To read and interpret	• For each pair of shapes, tick			angles of a given size	first quadrant
	line graphs	the shape with the larger			 Here is an irregular 	• To translate shapes
	• To draw line graphs	shaded area.			pentagon. Which is	• To translate with
	• To use line graphs to				the largest angle in	coordinates
	solve problems	• Find the area of these				• To identify lines of
	• To read and interpret	shapes drawn on a square-			this pentagon? Which is the	symmetry
	tables	centimetre grid.				• To complete a
	 To use two-way tables 	• Here are three shapes on a			smallest angle?	symmetric figure
	-	triangular grid. Put the			Which angle is 100°?	 To reflect shapes
	• To read timetables	shapes in order from			• Here are 6 angles.	-
		smallest to largest according			Which is the largest	• To reflect with

	to their area.			angle? Which is the	coordinates
	• Draw a rectangle with an			smallest angle?	Measurement:
	area of 12cm2 on this			Which angle is 45°?	Converting Units
	square-centimetre grid.		٠	This pentagon has a	5NPV-5 Convert between
	Draw a hexagon with an			line of symmetry.	units of measure
	area of 12cm2 on this			Estimate the size of	Convert between units of
	square-centimetre grid.			each angle.	measure, including using
	• Find the area of each of		•	Measure and label	common decimals and
	these rectangles.			each of the angles in	fractions.
	• Leila is putting some tiles on			these shapes using a	• Fill in the missing
	the wall behind her kitchen			protractor.	numbers to complete
	sink. Each tile is square,		•	Draw an angle of	these conversions
	with sides equal to 10cm.			68°. Draw an angle	between units.
	Here is the area she has tiled			of 103°.	• Put these volumes in
	so far. If Leila adds one				order from smallest to
	more row of tiles on top of				largest.
	these ones, what is the total				• Put these lengths in
	area she will have tiled?				order from smallest to
	• Each half of a volleyball				largest.
	court is a 9m9m×square.				• Maya needs to post 3
	What is the total area of a				parcels. The mass of
	volleyball court?				each parcel is shown
	• Estimate the area of your				below. How much do
	classroom floor.				the parcels weigh
					altogether, in
					kilograms?
					• Finn has a 7 $\frac{1}{2}$ m
					length of wood. How
					many $\frac{3}{4}$ m length
					pieces can he cut from
					it?
					 I need 1 ¹/₄ kgof flour
					for a recipe. I pour
					some flour into the
					weighing scales. How
	1				much more flour do I
	1				need for the recipe?
	1				
					empty circles so that each row and column
					of 3 circles adds to
	1				5km.
	1				Measurement: Volume (1
	1				week)
	1				
	1				To recognise and
					describe volume

			٠	To compare volume
			•	To estimate volume
			•	To estimate capacity