

## ST. JOHN BOSCO RC PRIMARY SCHOOL

Long Term Plan		Ready to Progr	ess Criteria/ Assessment	Guidance Yea	ar Group: 3	
	Autum	n Term	Spring	Term	Summe	r Term
Number and Place Value	<ul> <li>3NPV-1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10.</li> <li>How many 10cm lengths can a 310cm length of ribbon be cut into?</li> <li>The school office sells 52 poppies for 10p each. How much money have they collected altogether?</li> <li>I take 10ml of medicine every day. How many days will a 250ml bottle last?</li> <li>Marek is 2 years old, and has a mass of 10kg. His father's mass is 10 times as much. What is the mass of Marek's father?</li> <li>Janey saves up £100. This is 10 times as much money as her brother has. How much money does her brother have?</li> <li>Circle the numbers that are multiples of 10. Explain your answer.</li> <li>640 300 105 510 330 409 100 864</li> <li>3NPV-2 Recognise the place value of each digit in three-digit numbers and compose and decompose three-digit numbers using standard and</li> </ul>					

non-standard partitioning.			
• What number is			
represented by these			
counters?			
• What number is			
represented by this			
expression?			
• Fill in the missing			
numbers to complete			
these partitioning			
diagrams.			
• Fill in the missing			
numbers			
• Fill in the missing			
symbols $(< > \text{ or } =)$			
Thomas and 265 days in a			
• There are 505 days in a			
days of the year op			
how many days does it			
not min?			
A hamboo plant was			
4m tall Then it grew by			
another 83cm How tall			
is the hamboo plant			
now? Express your			
answer in centimetres.			
<ul> <li>In the school library</li> </ul>			
there are 25 books on			
the trolley and 250			
books on the shelves.			
How many books are			
there altogether?			
• Francesco had 165			
marbles. Then he gave			
45 marbles to his			
friend. How many			
marbles does Francesco			
have now?			
• The tree outside			
Cecily's house in 308cm			
tall. How much further			
would it have to grow			
to reach the bottom of			
Cecily's bedroom			
window, at 3m 68cm?			
3NPV-3 Reason about			
the location of any three-			
digit number in the linear			
number system, including			
identifying the previous and			
next multiple of 100 and 10.			1

• Fill in the missing			
numbers.			
• Estimate to fill in the			
missing numbers.			
• Estimate and mark the			
position of these			
numbers on the			
number line.			
• Look at lines A, B and			
C. Can you estimate			
how long they are by			
comparing them to the			
1,000cm lines?7			
• Estimate the mass, in			
grams, shown on this			
weighing scale.			
3NPV–4 Divide 100 into 2,			
4, 5 and 10 equal parts, and			
read scales/number lines			
marked in multiples of 100			
with 2, 4, 5 and 10 equal			
parts.			
• Fill in the missing			
numbers.			
• What were Jenny and			
Asit's scores? (read the			
bar graph)			
Miss Scot weigns			
doos she weigh in			
kilograms? (Read scale)			
How many continuetros			
<ul> <li>How many centimetres</li> <li>long is the ribbon?</li> </ul>			
How many 25p			
• How many 25p			
(52			
• How many 50cm			
lengths of wood can I			
cut from a 3m plank?			
• We raise £100 at the			
school fair and divide			
the money equally			
between 5 charities.			
How much does each			
charity get?			
• Stan counts from 0 in			
multiples of 25. Circle			
the numbers he will say.			
Problem Solving			
<ul> <li>Engage with</li> </ul>			

	<ul> <li>mathematical activities and problems making links and moving between different representations (concrete, pictorial and abstract)</li> <li>Independently choose to scaffold thinking using concrete, pictorial</li> </ul>				
	or abstract representations if required Reasoning • Provide a convinced				
	argument				
Addition and	3NF-1 Secure fluency in	3AS-1 Calculate	3NF-2 Recall multiplication	3F-1 Interpret and write	
Subtraction	addition and subtraction	complements to 100.	facts, and corresponding	proper fractions to represent	
Subtraction	facts that bridge 10, through	• Which of these are	division facts, in the 10, 5, 2,	1 or several parts of a whole	
	continued practice.	correct complements to	4 and 8 multiplication tables,	that is divided into equal	
Multiplication and	• Mr Kahn drove 8km to	100 and which have an	and recognise products in	parts.	
Division	get to his friend's	extra 10? Tick the	these multiplication tables as	• What fraction of each	
	house, and then drove	correct column.	multiples of the	diagram is shaded?	
Fractions	another 3km with his	Explain your answers.	corresponding number.	<ul> <li>Does each diagram</li> </ul>	
	friend to get to the	• Fill in the missing	• A spider has 8 legs. If	show the given	
	gym. How far did Mr	numbers.	there are 5 spiders, how	fraction? Explain your	
	Kahn drive?	• A dressmaker had 1m	many legs are there	answers.	
	• There are 12 children. 5	of ribbon. Then she	altogether?	<ul> <li>What fraction of each</li> </ul>	
	of them can ride a	used 22cm of it. How	• A book costs $\pounds$ 5. How	diagram is shaded/	
	bicycle and the rest	many centimetres of	much do 6 books cost?	highlighted?	
	cannot. How many of	ribbon does she have	• 18 socks are put into	• or cross each diagram	
	a bicycle?	lett?	pairs. How many pairs	to show whether $3/5$ is	
	<ul> <li>Maia had (17 Then</li> </ul>	• A toy shop sells ping-	are there.	shaded. Explain your	
	she spent (9 How	If I was a (1 goin to pay	• Felicity wants to buy a	answers.	
	much money does she	for a ping pong ball	scooler for $\frac{1}{2}$ ,00. If she	• Shade 1/10 of this set.	
	have left?	how much change will I	how many notes does	• Shade 3/4of this	
	• I have 6 metres of red	get, in pence?	she need?	snape.	
	ribbon and 6 metres of	<ul> <li>Mr Iones has 100</li> </ul>	• Circle the numbers that	• Circle 4/50t the	
	blue ribbon. How many	stickers, 47 of them are	are multiples of 4.	tiowers.	
	metres of ribbon do I	gold and the rest are	3NF-3 Apply place-value	• d. Colour 1/3 of the	
	have altogether?	silver. How many are	knowledge to known	IIIC 3E_2 Find unit fractions of	
	• 27	silver?	multiplicative number facts	quantities using known	
	• Hazeem is growing a	3AS-2 Add and subtract up	(scaling facts by 10	division facts (multiplication	
	sunflower and a bean	to three-digit numbers using	• A garden table costs	tables fluency).	
	plant. So far, his	columnar methods	$\pounds 80$ and 2 garden chairs	• Rohan saved £32. He	
	sunflower plant is 14cm	• Solve these calculations	each cost $\pounds 60$ . How	spends 14of his money	
	tall and his bean plant is	using columnar	much do the 2 chairs	on a toy. How much	
	scm tall. How much	addition or columnar	and the table cost	does he spend?	
	tailer is the sunflower	subtraction.	altogetner?	• Find: 1/5 of 35, 1/10	
	plant than the beam	<ul> <li>Year 5 want to buy</li> </ul>	<ul> <li>150 people are expected</li> </ul>		

		-		
plant?	some sports equipment	at a concert. So far 70	of 40, 1/8 of 24	
3NF-3 Apply place-value	which costs $f$ ,472. So	people have arrived.	• The school caretaker	
knowledge to known	far they have raised	How many more	buys 50 litres of paint	
additive number facts	(158 How much more	people are due to	Showson $1/5$ of it to	
(scaling facts by 10)	money do they need to	arrive?	she uses 1/5 of ht to	
(seaming facts by 10).	money do they need to		pant the year 5	
• A garden table costs	Taise:	• A family ticket for a	classroom. How many	
£80 and 2 garden chairs	• Cheryl has $f_{135}$ . She	satari park is £40. 3	litres of paint is this?	
each cost £60. How	spends £53 on some	families go together.	<ul> <li>There are 16 apples in a</li> </ul>	
much do the 2 chairs	new trainers. How	How much do the 3	fruit bowl. Some	
and the table cost	much money does she	family tickets cost	children eat $1/4$ of the	
altogether?	have left?	altogether?	apples. How many are	
• 130 people are expected	• There are 172 non-	• Fill in the missing	left?	
at a concert. So far 70	fiction books in the	numbers	$3E_3$ Reason about the	
people have arrived	school library and 356	3MD-1 Apply known	location of any fraction	
How many more	fiction books. How	multiplication and division	within 1 in the linear number	
	many books. How	facts to solve contextual	within 1 in the inear number	
people are due to	that is not set of the	facts to solve contextual	system.	
arrive?	the library altogether?	problems with different	• Label the points on this	
• A family ticket for a	<ul> <li>Fill in the missing</li> </ul>	structures, including	number line.	
safari park is £40. 3	numbers.	quotitive and partitive	<ul> <li>How tall is this plant?</li> </ul>	
families go together.	<ul> <li>Mahsa carries out the</li> </ul>	division.	Give your answer as a	
How much do the 3	following columnar	<ul> <li>Circle the expressions</li> </ul>	fraction of a metre.	
family tickets cost	addition calculation.	that match the picture.	• Which is larger, 6/8 or	
altogether?	• Write a columnar	• If one sweet costs 3p,	3/82 Explain your	
• Fill in the missing	subtraction calculation	how much do 8 sweets	answer	
numbers.	that she could do to	cost?	Which is larger 1/4 or	
Problem Solving	check that her	<ul> <li>I peed to buy 32 metres</li> </ul>	• Which is larger, 1/4 or	
Engage with	coloulation is contract	• I field to buy 52 fieldes	1/ 5? Explain your	
Engage with	calculation is correct.	of fencing to go around	answer.	
mathematical activities	Complete the following	my garden. The rencing	<ul> <li>Gemma and Kasper</li> </ul>	
and problems making	calculations. Choose	is sold in 8-metre	look at this number	
links and moving	carefully which method	lengths. How many 8-	line. Gemma says the	
between different	to use.	metre lengths do I need	arrow is pointing to the	
representations	3AS-3 Manipulate the	to buy?	number 34. Kasper	
(concrete, pictorial and	additive relationship:	• There are 24	says the arrow is	
abstract)	Understand the inverse	strawberries in a tub. I	pointing to the number	
<ul> <li>Independently choose</li> </ul>	relationship between	share them equally	35. Who is correct?	
to scaffold thinking	addition and subtraction, and	between the 4 people in	Explain your answer.	
using concrete, pictorial	how both relate to the part-	my family. How many	<ul> <li>Add the missing labels</li> </ul>	
or abstract	part–whole structure.	does each person get?	to the measuring ing	
representations if	Understand and use the	• A gardener has 5 plant	3E 4 Add and subtract	
required	commutative property of	Pote She plants 6 seeds	SF-4 Add and subtract	
Reasoning	addition and understand the	in each pot. How many	fractions with the same	
Drowids a sonvineed	related property for	in each pot. How many	denominator, within 1.	
• Flovide a convinced	subtraction	steeds does she plant	Complete the	
argument	Elli di i	altogether?	calculations.	
	• Fill in the missing	Problem Solving	• Diego writes: 3/12 =	
	numbers.	Independently choose	5/12 = 8/12Mark	
	Problem Solving	to represent thinking	writes:3/12+5/12=8/2	
	<ul> <li>Engage with</li> </ul>	using concrete, pictorial	Who is correct? Explain	
	mathematical activities	or abstract	the mistake that has	
	and problems making	representations as	been made.	
	links and moving	appropriate	<ul> <li>Decide whether each</li> </ul>	
	between different	• Independently find an	- Decide whether cach	

representations	efficient way to solve a	not. Explain your
(concrete, pretoriar and	Reasoning	
abstract)	Reasoning	• Sona had a jug
Independently choose	• Reflect on others	containing //10 of a
to scatfold thinking	convinced explanations	litre of juice. She drank
using concrete, pictorial	and use this to improve	4/10 of a litre. How
or abstract	their work	much does she have
representations if		left?
required	Rich Tasks	Problem Solving
Reasoning		<ul> <li>Independently work</li> </ul>
Provide a convinced	Music to My Ears	systematically
argument	Ordering Cards	Independently find
	Number Detectives	possibilities using
	• Ring a Ring of	patterns spotted to
	Numbers	support
	• Man Northean in the	<ul> <li>Independently check</li> </ul>
	• More Numbers in the	and improve work
	Ning ou i mi	(look for other
	Clapping Times	possibilities repeats
	Even and Odd	missing answers errors
	How Odd Pairs of	and ways to improve)
	Legs	Dettern and a
	Two Numbers Under	Pattern spot and     prodict what will come
	the Microscope	predict what will come
	Odd Time Even	next in a pattern/
	Double or Helize	sequence (numbers,
		shape of spatial)
	• Always, Sometimes,	• Independently
	Never:	investigate conjectures
	• Table Teaser	and provide examples
	Which Symbol?	and counter-examples
		<ul> <li>When they have solved</li> </ul>
		a problem, pose a
		similar problem for a
		peer
		Reasoning
		<ul> <li>Edit and improve their</li> </ul>
		own and a peer's
		convinced explanation
		Investigate 'what if?'
		questions
		• Create what it?'
		questions
		Diak Teaka
		• Happy Halving
		• Halving
		Fair Feast
		Fraction Match
		Matching Fractions

Geometry	Problem Solving	Measurement: Money (No	Statistics (No RTP)	Measurement: Time (No	3G-1 Recognise right
Ĩ	• Engage with	RTP)	• Make tally charts	RTP)	angles as a property of
Measurement	mathematical activities	Recognise coins and	• To draw pictograms	• Use o'clock and half	shape or a description
	links and moving	Count money- pence	(2, 5 and 10)	• Use quarter past and	of a turn and identify
	between different	Count money- pounds	• Interpret pictograms	quarter to	right angles in 2D
	representations	(notes and coins)	(2,5 and 10)	• Tell the time to 5	snapes presented in
	(concrete, pictorial and	Count money- notes	• Construct and	minutes	Ularo is a man of a
	abstract)	and coins	interpret pictograms	• Tell the time to the	• Here is a map of a
	• Independently choose	Select money	• Construct and	minute	• a Follow the
	using concrete, pictorial	• Make the same amount	interpret Bar Charts	• Use a.m. and p.m.	instructions and say
	or abstract	Compare money	<ul> <li>Construct and</li> </ul>	• Tell time using the 24-	where you end up.
	representations if	• Find the total	interpret tables	Find the duration	Each time, start at
	required	Find the difference     Eind shares		Compare durations	the camp, facing
	Provide a convinced	<ul> <li>Find change</li> <li>Solve two step</li> </ul>	Measurement:	<ul> <li>Calculate start and end</li> </ul>	north. Go forwards 3
		problems	(No RTP)	times	squares. Make a
	argument	1	<ul> <li>Measure length</li> </ul>	• Measure time in	quarter turn
		Problem Solving	<ul><li>Measure length in</li></ul>	seconds	clockwise. Go
		Independently choose	metres	Calculate the number     of hours in a day	forwards 2 squares.
		to represent thinking	<ul> <li>Find equivalent lengths-</li> </ul>	<ul> <li>Becognise months and</li> </ul>	make a quarter turn
		or abstract	m and km	vears	forwards 2 squares
		representations as	<ul> <li>Find equivalent lengths-</li> </ul>	,	Where are you?
		appropriate	mm and cm	Problem Solving	Make a three-quarter
		• Independently find an	• Compare lengths	Independently work	turn clockwise. Go
		efficient way to solve a	<ul> <li>Add lengths</li> <li>Subtract lengths</li> </ul>	systematically	forward 3 squares.
		Reasoning	<ul> <li>Subtract lengths</li> <li>Measure perimeter</li> </ul>	<ul> <li>Independently ind possibilities using</li> </ul>	Make a quarter turn
		• Reflect on others'	<ul><li>Calculate perimeter</li></ul>	patterns spotted to	anticlockwise. Go
		convinced explanations		support	forward 1 square.
		and use this to improve	Problem Solving	Independently check	where are you? Start
		their work	Independently choose	and improve work	North Write some
			to represent thinking	possibilities repeats	instructions like the
			or abstract	missing answers, errors	ones above, to get to
			representations as	and ways to improve)	the treasure.
			appropriate	• Pattern spot and	• Draw an irregular
			• Independently find an	predict what will come	hexagon with one
			efficient way to solve a	sequence (numbers.	right angle on this
			range of problems Reasoning	shape or spatial)	grid.
			<ul> <li>Beflect on others'</li> </ul>	• Independently	• Mark all of the right
			convinced explanations	investigate conjectures	angles in these
			and use this to improve	and provide examples	shapes. Use a right-
			their work	When they have solved	angle checker to help
				a problem, pose a	3G-2 Draw polygons by
				similar problem for a	joining marked points
				peer	Journey mariney points

		1	D :	
			<ul> <li>Edit and improve their</li> </ul>	and identify parallel
			- Exit and improve their	and perpendicular
			convinced explanation	
			<ul> <li>Investigate (what if?)</li> </ul>	• I ask: Provide each
			- mivestigate what it:	pupil with 2
			<ul> <li>Create 'what if?'</li> </ul>	trapezium pieces
			- Create what he	set. Then ask them to
			questions	make 3 different
				shapes by joining the
				pieces and discuss
				the properties of
				each shape they
				make.
				• Here are 5 vertices of
				a regular hexagon.
				Mark the sixth vertex
				and join the points to
				draw the hexagon.
				• Here are 2 sides of a
				square. Complete the
				square.
				• Look at these 5
				quadrilaterals. Mark
				all the pairs of
				parallel sides. Hint:
				you can extend sides
				to help you.
				• Mark the missing
				vertex of this
				of the sides are
				perpendicular
				Measurement: Mass
				and Capacity (No RTP)
				Compare mass
				• Measure mass
				<ul> <li>Add and subtract</li> </ul>
				Compare volume
				Mossure contractor
				Measure capacity
				• Add and subtract
				capacıty
				• Measure and describe

temperature
Problem Solving
<ul> <li>Independently work</li> </ul>
systematically
Independently find
possibilities using
patterns spotted to
support
<ul> <li>Independently check</li> </ul>
and improve work
(look for other
possibilities, repeats,
missing answers, errors
and ways to improve)
• Pattern spot and
predict what will come
sequence (numbers
shape or spatial)
Independently
investigate conjectures
and provide examples
and counter-examples
When they have solved
a problem, pose a
similar problem for a
peer
Reasoning
<ul> <li>Edit and improve their</li> </ul>
own and a peer's
convinced explanation
<ul> <li>Investigate 'what if?'</li> </ul>
questions
<ul> <li>Create 'what if?'</li> </ul>
questions
questions