## Buckingham Park Cof E Primary School Maths Progression documents Addition and Subtraction



Objectives	Y1	Y2	Y3	Y4	Y5	Y6
National curriculum objectives	-add and subtract one-digit and two-digit numbers to 20, including zero solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = c - 9	-add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and ones -a two-digit number and tens -two two-digit numbers -adding three one-digit numbers -solve problems with addition and subtraction: -using concrete objects and pictorial representations, including those involving numbers, quantities and measures -applying their increasing knowledge of mental and written methods	-add and subtract numbers mentally, including: - a three-digit number and ones -a three-digit number and tens -a three-digit number and hundreds -add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction -solve problems, including missing number facts, place value, and more complex addition and subtraction	-add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate -solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	-add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) -add and subtract numbers mentally with increasingly large numbers -solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why -solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	-perform mental calculations, including with mixed operations and large numbers -use their knowledge of the order of operations to carry out calculations involving the four operations -solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why
Dfe ready to progress criteria	1NF-1 Develop fluency in addition and subtraction facts within 10	<b>2NF-1</b> Secure fluency in addition and subtraction facts within 10, through continued practice.	<b>3NF-1</b> Secure fluency in addition and subtraction facts that bridge 10, through continued practice.			6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and

Buckingham Park Cof E Primary School Maths Progression documents

	Dackingilanii a	TR COI E I TITTAT Y SCHOOL IVIA	ins i rogi ession accaments	
1NF-2 Count forwards	2AS-1 Add and subtract	3NF-2 Recall		multiplicative
and backwards in	across 10	multiplication facts, and		relationships
multiples of 2, 5 and		corresponding division		(multiplicative
10, up to 10 multiples,	<b>2AS-2</b> Recognise the	facts, in the 10, 5, 2, 4		relationships restricted
beginning with any	subtraction structure of	and 8 multiplication		to multiplication by a
multiple, and count	'difference' and answer	tables, and recognise		whole number).
forwards and	questions of the form,	products in these		6AS/MD-2 Use a given
backwards through the	"How many more?"	multiplication tables as		additive or
odd numbers.		multiples of the		multiplicative
	2AS-3 Add and subtract	corresponding number		calculation to derive or
1AS-1 Compose	within 100 by applying	<b>3NF-3</b> Apply place-value		complete a related
numbers to 10 from 2	related one-digit	knowledge to known		calculation, using
parts, and partition	addition and subtraction	additive and		arithmetic properties,
numbers to 10 into	facts: add and subtract	multiplicative number		inverse relationships,
parts, including	only ones or only tens	facts (scaling facts by		and place-value
recognising odd and	to/from a two-digit	10).		understanding.
even numbers.	number.	<b>3AS-1</b> Calculate		6AS/MD-3 Solve
		complements to 100		problems involving ratio
1AS-2 Read, write and	2AS-4 Add and subtract	<b>3AS-2</b> Add and subtract		relationships.
interpret equations	within 100 by applying	up to three-digit		6AS/MD-4 Solve
containing addition (+),	related one-digit	numbers using		problems with 2
subtraction (-) and	addition and subtraction	columnar methods		unknowns
equals (=) symbols,	facts: add and subtract	<b>3AS-3</b> Manipulate the		
and relate additive	any 2 two-digit	additive relationship:		
expressions and	numbers.	Understand the inverse		
equations to real-life		relationship between		
contexts		addition and		
		subtraction, and how		
		both relate to the part–		
		part–whole structure.		
		Understand and use the		
		commutative property		
		of addition, and		
		understand the related		
		property for		
		subtraction.		

Buckingham Park Cof E Primary School Maths Progression documents

Power	Textbook 1A	Textbook 2A	Textbook 3A	3		Textbook 6A
Maths						
	Taught in Autumn	Taught in Autumn	Taught in Autumn			Taught in Autumn
unit/s and	Unit 2: Part Whole to	Unit 2: Addition &	Unit 3: Addition &			Unit 1: Place value
when	10 – lessons 2-4 (1AS-	Subtraction (1) – lessons	Subtraction (2) – lesson			within 10,000,000
taught in	1) lesson 6 (1AS-2)	6,7, 10,11,13 (2AS-1)	9 (3AS-1)			Unit 2: Four operations
school	Unit 3: Addition within	Lesson 3 and 5 (2AS-3)	Lessons 1,2,4,6,7,8			(1) – lesson 4 and 5
	10 – lesson 3 (1AS-2)	Unit 3: Addition &	(3AS-2)			(6AS-1)
	Unit 4: Subtraction	Subtraction (2) – lesson	Lesson 11 (3AS-3)			Unit 3: Four Operations
	within 10 – lessons	7 and 8 (2AS-2)	Unit 4: Multiplication &			(2) lesson 10 and 11
	1,2,8 (1AS-2)	Lesson 2 – (2AS-3)	Division (1)			(6AS-1)
		Lessons 3,5 and 6 (2AS-				Lesson 12 (6AS-2)
	Textbook 1B	4)	Textbook 3B			
	Taught in Spring		Taught in Spring			Textbook 6B
	Unit 7: Addition &	Textbook 2C	Unit 5: Multiplication &			Taught in Spring
	subtraction within 20 –	Taught in Summer	Division (2)			Unit 8: Algebra – lessons
	lessons 1,2,3,6,8,9,11	Unit 12: Problem solving				7,10,11 (6AS-4)
	(1AS-2)	and efficient methods –				Unit 7: Ratio &
		lesson 9 (2AS-4)				proportion – lessons 1-3
						and 7-9 (6AS-3)
Other	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks	-Daily Fluent in 5 tasks
resources	-White Rose – Autumn	-White Rose – Autumn	-White Rose – Autumn	-White Rose – Autumn	-White Rose – Autumn	-White Rose – Autumn
to aid	2, Spring 2	2,	2,	2,	2,	2,
teaching	-NCETM pages 13-16	- NCETM pages 12-15	-NCETM pages 12 -15	-NCETM pages 12 -14	-NCETM pages 11-13	-NCETM pages 12-14
	https://www.ncetm.or	https://www.ncetm.org.	https://www.ncetm.org.	https://www.ncetm.org.	https://www.ncetm.org.	https://www.ncetm.org.
	g.uk/media/qjpctp24/	uk/media/dnobtk14/ma	uk/media/oaqfcvjq/mas	uk/media/x45na0cs/ma	uk/media/lp0o2lgv/mas	uk/media/uitj1x5g/mast
	mastery assessment y	stery assessment yr2.p	tery assessment y3.pdf	stery assessment y4.pd	tery assessment y5.pdf	ery assessment y6.pdf
	1.pdf	df		f		
		_		_		
	1				1	

## **Links to further activities to aid teaching:**

 $White \ Rose \ materials \ link: \\ \underline{https://whiterosemaths.com/resources?year=year-1-new}$ 

NCETM materials link: <a href="https://www.ncetm.org.uk/classroom-resources/exemplification-of-ready-to-progress-criteria/">https://www.ncetm.org.uk/classroom-resources/exemplification-of-ready-to-progress-criteria/</a>

NCETM activities link: <a href="https://www.ncetm.org.uk/classroom-resources/assessment-materials-primary/">https://www.ncetm.org.uk/classroom-resources/assessment-materials-primary/</a>

NRICH - PRIMARY CURRICULUM MAP FOR ALL TOPICS

https://docs.google.com/spreadsheets/d/1blrdv1M9pKzoKrHeyxT5rkHbJUIJJWjYug2k4Xe9 es/edit#gid=598691163

Key: Highlighted objectives above link to the topic of place value taught

Red = calculations
Blue = Problems