



## <u>Mathematics – Year 3</u>

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2			
Secure fluency in addition	Secure fluency in addition	Secure fluency in addition						
and subtraction facts that	and subtraction facts that	and subtraction facts that	All times tables with particular	All times tables with particular	All times tables with particular			
bridge 10, through continued	bridge 10, through continued	bridge 10, through continued	focus on 12,11,9, 8 x tables	focus on 7, 6, 5, 4, 3 x tables	focus on 12,11,9, 8 x tables			
practice.	practice.	practice.						
		A REPORT OF A DECEMBER OF A	Apply place-value	Apply place-value	Apply place-value			
Intervention for KS1 times	Intervention for KS1 times	All times tables with particular	knowledge to known	knowledge to known	knowledge to known			
tables if required	tables if required	focus on 7, 6, 5, 4, 3 x tables	additive and multiplicative	additive and multiplicative	additive and multiplicative			
All times tables with particular	All times tables with particular	Apply place-value	number facts (scaling facts by 10).	number facts (scaling facts by 10).	number facts (scaling facts by 10).			
focus on 7, 6, 5, 4, 3 x tables	focus on 12.11.9. 8 x tables	knowledge to known	Ideis by Toj.	Tacis by Toj.	iders by ioj.			
10C03 0117, 8, 3, 4, 3 × 10Dies	10C03 011 12, 11, 7, 0 X 10DIes	additive and multiplicative	Divide 100 into 2, 4, 5 and 10 equal	Divide 100 into 2, 4, 5 and 10 equal	Divide 100 into 2, 4, 5 and 10 equal			
Apply place-value	Apply place-value	number facts (scaling	parts, and read scales/number	parts, and read scales/number	parts, and read scales/number			
knowledge to known	knowledge to known	facts by 10).	lines marked in multiples of 100	lines marked in multiples of 100	lines marked in multiples of 100			
additive and multiplicative	additive and multiplicative		with 2, 4, 5 and 10 equal parts.	with 2, 4, 5 and 10 equal parts.	with 2, 4, 5 and 10 equal parts.			
number facts (scaling	number facts (scaling	Counting in 50s and 100s	with 2, 4, 5 and 10 equal parts.	with 2, 4, 5 and 10 equal parts.	with 2, 4, 5 and 10 equal parts.			
facts by 10).	facts by 10).		Manipulate the additive	Manipulate the additive	Manipulate the additive			
, ,	, ,	10/100 more of less than a	relationship: Understand the	relationship: Understand the	relationship: Understand the			
Counting in 50s and 100s	Counting in 50s and 100s	number	inverse relationship between	inverse relationship between	inverse relationship between			
	-		addition and subtraction, and how	addition and subtraction, and how	addition and subtraction, and how			
10/100 more of less than a	10/100 more of less than a	Recognise the place value of each	both relate to the part-part-whole	both relate to the part-part-whole	both relate to the part-part-whole			
number	number	digit in three-digit numbers, and	structure. Understand and use the	structure. Understand and use the	structure. Understand and use the			
		compose and decompose three-	commutative property of addition,	commutative property of addition,	commutative property of addition,			
Recognise the place value of each	Recognise the place value of each	digit numbers using standard and	and understand the related	and understand the related	and understand the related			
digit in three-digit numbers, and	digit in three-digit numbers, and	non-standard partitioning	property for subtraction.	property for subtraction.	property for subtraction.			
compose and decompose three-	compose and decompose three-							
digit numbers using standard and	digit numbers using standard and	Know that 10 tens are equivalent	Interpret and write proper	Interpret and write proper	Interpret and write proper			
non-standard partitioning	non-standard partitioning	to 1 hundred, and that 100 is 10	fractions to represent 1 or several	fractions to represent 1 or several	fractions to represent 1 or several			
Know that 10 tans and an indext	Know that 10 tans and a window t	times the size of 10; apply this to	parts of a whole that is divided	parts of a whole that is divided	parts of a whole that is divided			
Know that 10 tens are equivalent	Know that 10 tens are equivalent	identify and work out how many	into equal parts.	into equal parts.	into equal parts.			
to 1 hundred, and that 100 is 10 times the size of 10; apply this to	to 1 hundred, and that 100 is 10 times the size of 10; apply this to	10s there are in other three-digit						
identify and work out how many	identify and work out how many	multiples of 10.	Add and subtract fractions with	Add and subtract fractions with	Add and subtract fractions with			
10s there are in other three-digit	10s there are in other three-digit	Reason about the location of any	the same denominator, within 1.	the same denominator, within 1.	the same denominator, within 1.			
multiples of 10.	multiples of 10.	three-digit number in the linear	Reason about the location of any	Reason about the location of any	Reason about the location of any			
multiples of 10.	multiples of 10.	number system, including	fraction within 1 in the linear	fraction within 1 in the linear	fraction within 1 in the linear			
Reason about the location of any	Reason about the location of any	identifying the previous and next	number system.	number system.	number system.			
three-digit number in the linear	three-digit number in the linear	multiple of 100 and 10.	number system.	number system.	number system.			
number system, including	number system, including	maniple of 100 and 101	Find unit fractions of quantities	Find unit fractions of quantities	Find unit fractions of quantities			
identifying the previous and next	identifying the previous and next	Divide 100 into 2, 4, 5 and 10 equal	using known division facts	using known division facts	using known division facts			
multiple of 100 and 10.	multiple of 100 and 10.	parts, and read scales/number	(multiplication tables fluency)	(multiplication tables fluency)	(multiplication tables fluency)			
		lines marked in multiples of 100						
Addition and subtraction	Divide 100 into 2, 4, 5 and 10 equal	with 2, 4, 5 and 10 equal parts.	Addition and subtraction		Addition and subtraction			
written strategies	parts, and read scales/number		written strategies	Addition and subtraction	written strategies			
				written strategies				

Addition and subtraction of fractions with same denominator	lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts. Manipulate the additive relationship: Understand the inverse relationship between 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. Addition and subtraction written strategies Addition and subtraction of fractions with same	Addition and subtraction written strategies Addition and subtraction of fractions with same denominator Multiplication and division strategies Fractions of quantities (Unit and non-unit)	Addition and subtraction of fractions with same denominator Multiplication and division strategies Fractions of quantities (Unit and non-unit)	Addition and subtraction of fractions with same denominator Multiplication and division strategies Fractions of quantities (Unit and non-unit)	Addition and subtraction of fractions with same denominator Multiplication and division strategies Fractions of quantities (Unit and non-unit)
	denominator Multiplication and division strategies Addition and	Multiplication and	Fractions (4 weeks)	Fractions (2 weeks)	Statistics (2 weeks)
Place Value (3 weeks) Calculate complements to 100.	Subtraction, (1 week)	Division (4 weeks)	Fractions (4 weeks) Interpret and write proper fractions to represent 1 or several	To recognise and use fractions as	To interpret and present data using bar charts, pictograms and tables
Recognise the place value of each digit in three-digit numbers, and compose and decompose three- digit numbers using standard and non-standard partitioning	To add/subtract a 3-digit number and ones/tens/hundreds. To add/subtract numbers up to 3 digits with a formal written method.	Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division.	parts of a whole that is divided into equal parts. To compare and order fractions with the same denominator within	numbers: unit fractions and non- unit fractions with small denominators. To compare and order fractions	Time (4 weeks) To tell and write the time to the nearest minute from an analogue clock, including using Roman
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 10 there are in other three digit	To estimate an answer to a calculation. To use the inverse operation to chock the answer to a calculation	To calculate 2 digit multiplied by 1 digit numbers using a formal written method. To calculate 2 digit numbers divided	one whole. Add and subtract fractions with the same denominator, within 1. Count up and down in tenths:	with the same denominator within one whole. Count up and down in tenths: recognise as fraction and as decimal.	numerals from I to XII, and 12-hour and 24-hour clocks. To compare durations of events.
10s there are in other three-digit multiples of 10.	check the answer to a calculation. Multiplication and	by 1 digit numbers using a formal written method.	recognise as fraction and as decimal.	To recognise and show equivalent fractions with small denominators.	
To compare and order numbers to 1000.	Division (3 weeks) To calculate 2 digit multiplied by 1	To solve missing number problems including positive integer scaling	To recognise and show equivalent fractions with small denominators.	To recognize, find and write	
To find 10 or 100 more or less than a number.	digit numbers using a formal written method.	problems and correspondence problems.	Reason about the location of any fraction within 1 in the linear	fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators:	
To write numbers in numerals and words	To calculate 2 digit numbers divided by 1 digit numbers using a formal written method.	Shape (2 weeks)	number system. Find unit fractions of quantities	particular attention to half, quarter and three-quarters.	
To count in multiples of 50 or 100.	To solve missing number problems	To draw 2-D shapes, know their names and describe them.	using known division facts (multiplication tables fluency).	Length and Perimeter (1 weeks)	
Reason about the location of any three-digit number in the linear number system, including	including positive integer scaling problems and correspondence problems.	To make 3-D shapes using modelling materials, recognise	To recognize, find and write fractions of a discrete set of objects: unit fractions and non-unit		

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identifying the previous and next	Money(1 week)	them in different orientations and	fractions with small denominators:	To measure and compare lengths
multiple of 100 and 10.	To add and subtract amounts of	describe them.	particular attention to half, quarter	(m/cm/mm); mass (kg/g);
Divide 100 into 2 4 5 and 10 anual	money to find change, using £ and	To second in sight on the or obtained	and three-quarters.	volume/capacity (l/ml)
Divide 100 into 2, 4, 5 and 10 equal	Ρ.	To recognise right, acute or obtuse		
parts, and read scales/number		angles within a shape.	Length and Perimeter (2	To measure the perimeter of simple
lines marked in multiples of 100		Recognise right angles as a	weeks)	2D shapes
with 2, 4, 5 and 10 equal parts.		property of shape or a description	To measure and compare lengths	
Addition and		of a turn, and identify right angles	(m/cm/mm)	
		in 2D shapes presented in different		Mass and Capacity
Subtraction, (4 weeks)		orientations.	To measure the perimeter of simple	(3 weeks)
To add/subtract a 3-digit number		chemations.	2D shapes	. To measure and compare mass
and ones/tens/hundreds.		To identify horizontal, diagonal or		(kg/g); volume/capacity (l/ml)
		vertical lines.		
Add and subtract up to three-digit				
numbers using columnar methods.		To identify pairs of parallel or		
Manipulate the additive		perpendicular lines.		
relationship: Understand the				
inverse relationship between		Draw polygons by joining marked		
addition and subtraction, and how		points, and identify parallel and		
both relate to the part-part-whole		perpendicular sides.		
structure. Understand and use the				
commutative property of addition,				
and understand the related				
property for subtraction.				
To estimate an answer to a				
calculation.				
To use the inverse operation to				
check the answer to a calculation.				

RTPC Key Concept Focus Ongoing Fluency Focus Calculation Focus