Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

EYFS						
Autumn 1	Early Mathematical Experiences (5 lessons)	Pattern and Early Number (10 lessons)		Numbers within 5 (10 lessons)		**Consolidation** (5 lessons)
Autumn 2	Addition and Subtraction within 5 (5 lessons) **Consolidation** (5 lessons)		Measures (5 lessons)	Shape and sorting (3D) (5 lessons)	Calendar and time (5 lessons)	
Spring 1	Numbers within 10 (10 lessons)		Addition and Subtraction within 10 (5 lessons)		Numbers within 15 (10 lessons)	
Spring 2	Shape and pattern (2D) (5 lessons)	Doubling and halving to 10 (5 lessons)	Grouping and sharing (10 lessons)		Numbers within 20 (5 lessons)	**Consolidation** (5 lessons)
Summer 1	Doubling and halving to 20 (10 lessons - continued)			Addition and Subtraction (10 lessons)		Money (5 lessons)
Summer 2	Measures (5 lessons)	Depth of numbers within 20 (10 lessons)		Numbers beyond 20 (10 lessons)		Problem solving/Investigation Week (5 lessons)

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

EYFS						

Term and Overall Unit Focus:	Unit of Work:	Unit overview:	Skills:	Key vocabulary/Star words:	What this looks like in practice (topic related ideas):
Autumn 1 **It's all Magic!**	Early mathematical experiences	• Classifying objects based on one element • Matching equal and unequal sets • Comparing and ordering objects and sets	• counting objects using one-to-one correspondence up to 5 • using some number names and number language • match equal sets using one-to-one correspondence • match unequal sets using one-to-one correspondence • compare objects according to size • compare sets without counting • order objects according to length or height • order sets without counting • Count objects, actions and sounds	Match Order Compare	- Matching farm animals to numbers. - Comparing numbers of animals in the pen. - Comparing the size of different animals. -Putting animals in size order. -Using cubes to measure height of animals.
	Pattern and early number	• Recognise, describe, copy and extend colour and size patterns • Count and represent numbers to 3	• recite numbers past 5. • count 1, 2 or 3 objects reliably • count one, two or three objects, images or sounds reliably • recognise if a number of objects is the same or different (working with numbers 1, 2 and 3) • develop fast recognition of up to 3 objects, without having to count them individually (subitising). • recognise the numerals 1, 2 and 3	Recognise, create, same, different, count, pattern, colour, size, big, small, long, short, next, before, extend, count, one, two,	- Creating patterns on a farm e.g. flowers, fences, animals. -Comparing characteristics of animals, e.g. which animal has the most

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
		● Estimate and check by counting	● create representations for numbers 1, 2 and 3 ● talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc. ● extend and create ABAB patterns – stick, leaf, stick, leaf. ● notice and correct an error in a repeating pattern. ● begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'	how many, same, different				spots or what flower has the least petals? -Spotting shapes in Farm themed settings.
	Numbers within 5	● Count up to six objects ● One more and one fewer ● Order numbers from 1-6	● say which number is one more or one less than a given number ● estimate a number of objects and check by counting ● recognise the numerals 1-5 ● count reliably with numbers as well as objects from 1 to 5 and understanding when counting that the last number is the total amount ● create representations for numbers 1- 5 ● place numbers 1- 5 in order ● count an amount up to 5 and match it to the corresponding numeral ● use a range of their own marks and signs which they ascribe mathematical meanings ● subitise within 5 (without counting) ● recognise that each counting number is one more than the one before	Explore, count, estimate, place value, recognise, One, two, three, four, same, different, more, fewer, first, next, before, after, more, fewer, greater, less,				- Placing a number of farm animals on ten frames and counting those animals. - Arrange farm related ideas for children to count and compare.

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

			● say which number from 1-5 is one more or one less than a given number				
Autumn 2 **Crash! Bang!** **Winter Wonderland**	Addition and subtraction within 5	● Explore zero ● Explore addition and subtraction ●	● understand the composition of numbers up to 5 ● add and subtract two single-digit numbers ● estimate a number of objects and check by counting up to 5 ● introduce the concept of 0 as the empty set ● represent and use number bonds within 5 ● use quantities and objects to add and subtract two single-digit numbers ● Solve real world mathematical problems up to 5	Zero, nothing, none, part, whole, plus, altogether, is equal to, part, whole, plus, is equal to.	- Making London or Christmas related addition and subtraction stories.
	Measures	● Explore capacity, weight and length ● Estimate capacity, length and weight ● Compare capacity, weight and length	● use everyday language to talk about size, weight, capacity ● estimate, measure, weigh and compare and order objects ● compare objects and quantities ● to accurately understand the difference between tall, small, short, long, light and heavy. ● solve size problems related to measures	Big, bigger, biggest, small, smaller, smallest, full, empty, half full, heavy, heavier, heaviest, light, lighter, lightest, balance, long, longer, longest, short, shorter, shortest, same length.	- Measuring how tall buildings in London are, how heavy they are.

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
	Shape and sorting	- Describe 3D shapes - Sort 3D shapes - Describing position accurately	- explore characteristics of everyday objects and shapes and use mathematical language to describe them - use common shape names - shows an interest in shape and space by playing with shapes by sustained construction activity e.g. flat surface for a building and triangular shape for a roof. - explore characteristics of everyday objects and shapes (focusing on 3-D shapes) - use positional language - use mathematical language associated with shape - classify and sort (similarities and differences) everyday objects		Vertex, vertices, face, edge, over, under, above, below, top, bottom, side, on, in, in front, behind, front, back, beside, next to, between,		- Link to Christmas decorations or spotting shapes in landscapes.	
	Calendar and time	- Days of the week - Seasons - Sequence daily events	- use everyday language to talk about time, days of the week and months of the year - measures short periods of time in simple ways - orders and sequences events using everyday language related to time - use ordinal numbers: 1st, 2nd...last - use timers and calendars to measure time and experiences		Time, season, month, day, calendar, week, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, First, next, last, before, after, morning, afternoon, evening, night-		- Activities related to the topic e.g. Christmas Day is tomorrow morning, Santa Claus visits the houses at night and then delivers the presents.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
						time, longer, shorter.		
Spring 1 **Breaking News** **Chinese New Year Festival**	Numbers within 10	● Count up to ten objects ● Represent, order and explore numbers to ten ● One more or fewer, one greater or less	● say which number is one more or one less than a given number ● estimate a number of objects and check by counting ● counting forwards and backwards reliably with numbers from 1 to 10 ● develop an understanding of zero ● create representations for numbers 0-10 ● place numbers 0-10 in order ● recognise the numerals 0-10 ● match the numeral with a group of items to show how many there are up to 10 ● use ordinal numbers: 1st, 2nd...last ● understand the conservation of numbers ● Counts out up to 10 objects from a larger group		One, two, three, four, five, six, seven, same, different, altogether, one more, one greater, one fewer, one less, numbers names 1-10, order, greater, greatest, more, less, increasing, decreasing, First, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth, last, next, before, after, between.		Activities related to the topic e.g. explorers, festivals.
	Addition and subtraction within 10	● Explore addition as counting on and	● estimate a number of objects and check by counting up to 10 ● adds one and subtracts one with numbers to 10		First, then, now, plus, is equal to, take away.		

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			subtraction as taking away	● add and subtract two single-digit numbers and count on or back to find the answer ● use quantities and objects to add and subtract two single-digit numbers ● recall some number bonds to 10 ● Use number names, symbols (+ or -), tallies when comparing numbers and exploring mathematical problems ● shows interest in large numbers ● use a range of representations to model adding and subtracting (part-whole model, ten frame, number line, bead string) ● show awareness that numbers are made up of smaller numbers, exploring partitioning in different ways with a wide range of objects ● subitise larger numbers by subitising smaller groups within the number e.g. sees six raisins on a plate as three and three			
	Numbers within 15	● Count up to 15 objects and recognise different representations	● say which number is one more or one less than a given number ● estimate a number of objects and check by counting ● count reliably with numbers from 0 to 15 ● Create representations for numbers 0-15 ● place numbers from 0-15 in order ● considering equal and unequal groups		Number, number names 0 to 15, order, more, fewer, greater, less, same, equal, number line, one more, one fewer,		

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
		• Order and explore numbers to 15 • One more or fewer				between, before, after, bead string, guess, check, share, ordinal, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, first, last, order, sequence, groups of.	
Spring 2 **Down on the Farm**	Shape and pattern	• Describe and sort 2-D and 3- D shapes • Recognise, complete and create patterns	• use informal language as well as mathematical terms to describe and name shapes • talk about properties of shapes • explore characteristics of everyday objects and shapes and use mathematical language to describe them • explore characteristics of everyday objects and shapes (focusing on 2-D shapes) • use mathematical language associated with shape • classify and sort shapes • partitions and combines shapes to make new shapes with 2D and 3D shapes • recognise, create and describe patterns with shapes as well as identifying the pattern rule • recognise and create patterns beyond AB patterns and can recognise the unit of repeat	Side, edge, vertex, vertices, curved, straight, sort, criteria, corner, square, circle, triangle, rectangle, straight, curved, pattern, next, same, different.	- Looking at shapes of buildings around the world e.g. what shapes do they have? - Looking and comparing shapes from different habitats around the world.

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			● use mathematical language to describe size and position					
	Doubling and halving to 10	● Doubling within 10 ● Halving within 10 ● Relationship between doubling and halving	● solve problems, including doubling, halving and sharing ● model doubling using a range of representations (CPA) ● model halving using a range of representations (CPA) ● Explore the relationship between doubling ● Explore the relationship between doubling	Double, altogether, how many, count, half, equal, same, part-whole model.			- Doubling and halving scenarios related to the topic e.g. doubling 5 wands/halving 10 wizards/sharing them between castles.	
	Grouping and sharing	● Counting and sharing in equal groups ● Grouping into fives and tens ● Relationship between grouping and sharing	● solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups ● explore counting on in steps of 2 from zero ● explore counting on in steps of 5 from zero ● explore counting on in steps of 10 from zero ● share/group a number of objects into 2's, 5's and 10's ● solve practical problems that involve grouping and sharing	Groups of, each group, altogether, same, different, number, equal groups, same number, pair, groups of two, bead string, each group, altogether, is equal to, equal groups, same number, 0, 10, 20, 30, 40, 50, share, unequal.			- Sharing magic wands between wizards. - Skip counting numbers along a castle/skip counting using objects related to magic. -Solving potion related problems.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

	Numbers within 20	● Count up to 10 objects ● Represent, order and explore numbers to 15 ● One more or fewer	● count reliably with numbers from one to 20 ● create representations for numbers 0-20 ● say which number is one more or one less than a given number ● solve practical problems that involve grouping and sharing ● estimate a number of objects and check by counting, considering equal and unequal groups	Number names 0–20, more, fewer, order, one group of ten, numbers within 20, pattern, one more, one greater, one fewer, one less, between, before, after, groups, first, last, order.	- Representing numbers related to the topic e.g. 5 wands, 7 wizards.
Summer 1 **Climate Change**	Doubling and halving to 20	● Doubling within 20 ● Halving within 20 ● Relationship between doubling and halving	● solve problems, including doubling, halving and sharing ● model doubling using a range of representations (CPA) ● model halving using a range of representations (CPA) ● Explore the relationship between doubling ● Explore the relationship between doubling	Double, altogether, how many, count, half, equal, same, part-whole model.	- Doubling and halving scenarios related to the topic e.g. doubling 5 wands/halving 10 wizards/sharing them between castles.
	Addition and subtraction	● Commutativity ● Explore addition and subtraction	● estimate a number of objects and check by counting up to 20 ● add and subtract two single-digit numbers and count on or back to find the answer	Part, whole, plus, altogether, is equal to, First, then, now,	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
		● Compare two amounts ● Relationship between doubling and halving	● explore the relationship between addition and subtraction ● compare quantities and objects to solve problems ● solve problems, including doubling, halving and sharing ● say which number is one more or one less than a given number from 1 - 20 ● use quantities and objects to add and subtract two single-digit numbers			subtract, minus, part, whole, is equal to, more, fewer, is equal to, same, different, compare, double, add, half, share between.		
	Money	● Coin recognition and values ● Combinations to total 20p ● Change from 10p	● compare quantities and objects to solve problems ● use everyday language to talk about money, recognise coins up to 50p and their values ● compare the value of coins ● use quantities and objects to count on and back to add and subtract			1p, 2p, 5p, 10p, 20p, 50p, £1, coins, more, less, money, pence, penny, pennies, much?, altogether, pound,	- Introduce money from around the world – in different countries. - Climate change shops – selling environment friendly items etc.	
Summer 2 **When I grow up!**	Measures	● Describe capacities ● Compare volumes ● Compare weights	● use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and solve problems ● estimate, measure, weigh and compare and order objects ● order two or three items by length or height ● order two items by weight or capacity ● compare objects and quantities			full, nearly full, half full, empty, nearly empty, half empty, the same, most, least, heavy, heavier, heaviest, light,	- Make comparisons of height of themselves and discuss height and weight from being a baby to now.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
		● Estimate, compare and order lengths	● solve size problems involving measures ● explore measuring objects using non-standard units			lighter, lightest, the same, weight, more, less, about, length, same, different, how long, longer, longest, short, shorter, shortest, tall, taller, tallest,	
	Depth of numbers within 20	● Explore numbers and strategies ● Recognise and extend patterns ● Apply number, shape and measures knowledge ● Count forwards and backwards	● solve problems including grouping, sharing, doubling and halving ● Records using marks that they can interpret and explain (DM 40-60+) ● Begins to identify own mathematical problems based on own interests and fascinations (DM 40-60+)			Grouping, sharing, doubling, halving, numbers.	- Doubling and halving problems related to how they have changed e.g. height, age, shoe size etc.	
	Numbers beyond 20	● One more one less	● say which number is one more or one less than a given number			twenty, thirty, forty, count on,		

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Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

		● Estimate and count ● Grouping and sharing	● solve problems including grouping and sharing ● estimate a number of objects and check by counting ● count reliably to 50 ● explore counting on and back from any number within 50 ● place numbers from 0-50 in order ● estimate a number of objects and check by counting ● solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups			one more than, one fewer/less than, estimate, check, greater than, fewer than, share, equal, unequal, more than, fewer than,		
	Problem Solving		● show an interest in number problems ● begin to identify own mathematical problems based on own interests and fascinations ● solve problems including doubling, halving and sharing					

Maths Progression of Skills 2021-2022

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Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

EYFS Maths Meeting		
Autumn	**Spring**	**Summer**
Number: ● Recognising numerals to 10 ● Show an awareness of even and odd numbers to 5 ● Count reliably with numbers from 1 to 10 both forwards and backwards along a number line ● Say which number is one more or one less than a given number within 10 ● Add and subtract two single-digit numbers ● Represent and use number bonds within 5 ● Subitising within 5 ● Composition of numbers to 5 Shape: ● Recognise, describe and create patterns that are the same and different ● Explore characteristics of everyday objects and shapes and use mathematical language to describe them ● Use common shape names ● Responds to and uses language of position and direction e.g. on top of. Measure:	Number: ● Subitising within 10 ● subitise larger numbers by subitising smaller groups within the number e.g. sees six raisins on a plate as three and three ● Show an awareness of even and odd numbers to 10 ● Say which number is one more or one less than a given number within 20 ● Count reliably with numbers from 1 to 10 (Spring 1) 1 - 20 (Spring 2) forwards and backwards ● Represent and use number bonds within 5 and recall these automatically ● represent doubling facts using resources and begin to recall these automatically using numbers to 10 (Spring 2) ● Use a range of representations to model adding and subtracting ● Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same	Number: ● Subitising 5, 10 and 15. ● Count reliably with numbers from 1 - 20 forwards and backwards ● Show an awareness of even and odd numbers to 20 ● Explore counting on and back from any number within 50 in 2's, 5's and 10's. ● Double and half numbers (within 10) ● Add and subtract two single-digit numbers and count on or back to find the answer using a range of strategies (ten frame, number line etc.) ● Composition of numbers to 5, 10 and 15. ● Represent and use number bonds within 5 and 10 and recall these automatically e.g. number bond tennis ● represent doubling facts using resources and recall these automatically using numbers to 10 e.g. double tennis

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Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

● Order objects according to length or height and use everyday language to talk about size, weight, capacity Time: ● Days of the week and months of the year ● Orders and sequences events in everyday life and stories Money: ● Introduce coins 1p, 2p, 5p and 10p	● Share/group a number of objects into 2's, 5's and 10's equally ● Composition of numbers to 10 Shape: ● Explore, recognise, naming and matching 2D and 3D shapes and use mathematical language to describe them ● Ordering lengths and using comparative vocabulary Time: ● Days of the week (today, tomorrow and yesterday) and months of the year ● Introduce the clock and talk about familiar times of the day Money: ● Use everyday language to talk about money, recognise coins up to 50p and their values Measures: ● use spatial language, including following and giving directions, using reactive terms and describing what they see from different view points	● Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same Shape: ● Naming and matching 2D and 3D shapes and use mathematical language to describe them including face, edge, side and vertices Measure: ● Compare two or more objects and quantities in length, weight and capacities Time: ● Introduce o'clock

Maths Progression of Skills 2021-2022

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Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Year 1			
Autumn 1	Numbers and Place Value within 10 (10 lessons)	Addition and Subtraction within 10 (10 lessons)	Shapes and Patterns (10 lessons)
Autumn 2	Numbers and Place Value within 20 (10 lessons)	Addition and Subtraction within 20 (10 lessons)	**Consolidation** (5 lessons)
Spring 1	Time (10 lessons)	Exploring calculation strategies within 20 (5 lessons)	Addition and Subtraction within 20 (10 lessons)
Spring 2	Fractions (5 lessons)	Measures: Length and Mass (10 lessons)	Numbers and Place Value to 50 (10 lessons)	**Consolidation** (5 lessons)
Summer 1	Numbers 50 – 100 and beyond (10 lessons) **1st lesson consolidates numbers to 50.**	Addition and subtraction (10 lessons)	Money (5 lessons)
Summer 2	Multiplication and Division (10 lessons)	**Consolidation** (5 lessons)	Measures: Capacity and Volume (10 lessons)	Problem solving/investigation week (5 lessons)

Maths Progression of Skills 2021-2022

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Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

| Year 1 |
| ELG Skills |

Term and Overall Unit Focus	Unit of Work:	Unit overview:	Skills:	Key vocabulary:	What this looks like in practise (topic related):
Autumn 1 **It's all Magic!**	Numbers and Place Value within 10	● Representing Numbers ● Composition of numbers ● Doubling and halving ● One more and one less ● Comparison of numbers	● sort objects based on an amount provided ● count to ten, forwards and backwards, beginning with 0 or 1, or from any given number as well as counting objects ranging from 0-10 ● identify and represent numbers using objects and pictorial representations including the number line ● compare groups using the language of: equal to, more than, less than (fewer), most, least ● read and write numbers to 10 in numerals and words ● given a number, identify one more and one less ● introduce >, < and = symbols ● order numbers and groups of objects ● introduce ordinal numbers including 1st, 2nd and 3rd. ● count in multiples of twos ● double and halve numbers within 10 ● estimate numbers within 10	One, two, three, four, five, six, seven, eight, nine, ten, the same, as many, more, fewer, is equal to, part, whole, number bond, represent, double, equal, equal parts, half, halve, inverse, compare, order, less, greater, greatest, smaller, smallest.	- Using farm animals to count, find one more and represent different numbers. E.g. how many cows are there?

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
	Addition and subtraction within 10	● Addition ● Counting on ● Commutativity ● Partitioning ● Counting back ● Subtraction ● Related facts	● read, write and interpret mathematical statements involving addition (+) and equals (=) signs begin with using conceptual notations of a part whole model combining two quantities and partitioning quantities ● read, write and interpret mathematical statements involving subtraction (–) and equals (=) signs begin with using conceptual notations of a part whole model combining two quantities and partitioning quantities ● introduce fact families and addition facts ● represent and use number bonds to 10 as well as beginning to compare these ● provide systematic methods for number bonds to 10 (ten frame; numicon; bead strings) ● solve one-step problems that involve addition to 10 and 0 using concrete objects and pictorial representations, and missing number problems – using first then and now. - adding together and adding more ● solve one-step problems that involve subtraction to 10 and 0, using concrete objects and pictorial representations, and missing number problems – using first then and now. - taking away and finding a part		Equation, add, addition, sign, symbol, plus, is equal to, altogether, part, whole, count on, sum, subtract, minus, number line, related, total.	- Using farm related objects to represent addition and subtraction e.g. using animals placed on a ten frame or part whole model.

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
	Shape and patterns	● Identifying, classifying, sorting and describing 3D shapes ● Identifying, classifying, sorting and describing 2D shapes ● Repeating patterns ● Position, direction and movement		● recognise and name common 2-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles ● recognise and name common 3-D shapes, including: 3-D shapes [for example, cuboids (including cubes), pyramids and spheres ● make comparisons and share differences of structures of the same shape e.g. long fat cylinder, short thin cylinder however they are both cylinders ● sort and classify 2D shapes ● sort and classify 3D shapes ● make, interpret and create 2D and 3D shape patterns ● compose and decompose 2D shapes e.g. arranging shapes to match a 2D image ● be able to find shapes within shapes ● compose and decompose 3D shapes to make a model e.g. interlinking cubes to make an L and being able to compare two of the same shapes in different positions ● describe position, direction and movement, including whole and half turns		Cube, cuboid, cylinder, cone, sphere, pyramid, rectangle, square, circle, oblong, triangle, side, corner, vertex, vertices, curved, straight, pattern, repeating pattern, before, after, next, bigger, smaller, between, last, last but one, next to, in front of, under, left, right, between, above, forward, quarter turn, algorithm, backward.	- Using a farm house to look at different 3D shapes they can see. - Using 2D/3D shapes to create pictures of animals or farms.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
Autumn 2 **Crash! Bang!** **Winter Wonderland**	Numbers and Place Value within 20	● Representing numbers to 20 ● Number lines ● One more and one less ● Comparing ● Ordering numbers ● Patterns ● Doubles and halves ● Odd and even	● count to twenty, forwards and backwards, beginning with 0 or 1, or from any given number ● count, read and write numbers from 1 to 20 in numerals and words making reference to odd and even numbers ● count one more and one less from a given number to 20 using a range of strategies ● compare groups of objects and numbers using language; greater, less, more, fewer and difference. ● identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least ● count in multiples of twos and fives ● double and halve numbers within 20	Eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, represent, count on, number line, more than, less than, before, after, order, difference, tens, ones, greater, less, more, fewer, compare, value, increase, decrease, pattern, double, half, equal, odd, even, fair, unfair.			
	Addition and subtraction within 20	● Counting on ● Counting back ● Known facts ● Make ten	● Find, represent and use number bonds and related subtraction facts within 20 ● add one-digit and two-digit numbers to 20, including zero - add by counting on - add by making 10 first	First, then, now, more, number line/track, represent, add, addition, equation,		- Using crash bang, winter wonderland objects to use for addition and subtraction.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
				● subtract one-digit and two-digit numbers to 20, including zero - not crossing 10 - crossing 10 ● read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs ● solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems ● begin to estimate to check answers		subtract, subtraction, equation, take away, number bond, known fact, is equal to, 'make ten' strategy, partition, minus, model.		
Spring 1 **Breaking News** **Chinese New Year Festival**	Time	● Ordering months ● Sequencing events ● Minutes and seconds ● O'clock and half past ● Read and write o'clock and half past ● Time word problems		● recognise and use language relating to dates, including days of the week, weeks, months and years ● compare, describe and solve practical problems for time for example, quicker, slower, earlier, later and measure and begin to record time in hours, minutes, seconds ● sequence events in chronological order using language for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening ● tell the time to the hour and half past the hour and draw the hands on a clock face to show these times		January, February, March, April, May, June, July, August, September, October, November, December, month, year, date, before, after, next, then, first, minute, second, clock, longer, shorter, minute	- Using activities for time related to the topic. E.g. at 5 o'clock the fire of London started	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			● Position, direction and movement	● compare time ● describe position, direction and movement, including whole, half, quarter and three-quarter turns, with reference to the clock face		hand, second hand, hour hand, half past, time, half way between, o'clock, straight up, straight down, whole, quarter turn, clockwise, anti-clockwise.		
	Exploring calculation strategies within 20	● Known facts ● Near doubles ● Make 10 ● Understanding the = sign		● represent and use number bonds and related addition and subtraction facts within 20 ● add and subtract one-digit and two-digit numbers to 20, including zero ● read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs ● solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems ● using calculation strategies including: known fact, make 10, near doubles		Part, whole, related, known fact, number bond, double, near double, 'make ten' strategy, partition, addition, subtraction, equal, is equal to, equation, plus, efficient.		
	Addition and subtraction within 20	● More and fewer ● Difference		● represent and use number bonds and related addition and subtraction facts within 20		Compare, more, fewer, difference,		

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			● Greater and less ● Make ten – finding the difference ● Subtraction and addition equations ● Solving problems	● add and subtract one-digit and two-digit numbers to 20, including zero ● add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; adding three one-digit numbers (Y2) ● read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs ● solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems ● begin to estimate to check answers ● discuss and solve one step problems that involve addition and subtraction, using pictorial representations, concrete objects and missing number problems	greater than, less than, 'make ten', subtract, equation, add.		
Spring 2 **Down on the Farm**	Fractions		● Identify half of shape ● Identify half of a quantity ● Identify quarter of a shape	● recognise, find and name a half as one of two equal parts of an object, shape or quantity ● recognise, find and name a quarter as one of four equal parts of an object, shape or quantity ● be able to write correctly ½ and ¼, 2/4, 3/4 understanding that the line is straight, the numerator is the amount of parts and denominator is how many parts altogether	Fraction, part, whole, compare, difference, equal parts, unequal parts, shape.	- Using objects related to the topic to find one half and one quarter of e.g. half of 6 wands.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

		● Identify quarter of a quantity ● Half and quarter turns	● connect halves and quarters to the equal sharing and grouping of sets of objects and to measures, as well as recognising and combining halves and quarters as parts of a whole				
	Measures: Length and Mass	● Comparing lengths ● Non-standard units ● Standard units ● Doubling and halving of lengths ● Comparing weight ● Weighing objects using non-standard units	● compare, describe and solve practical problems for: lengths and heights for example, long/short, longer/shorter, tall/short, double/half; mass/weight for example, heavy/light, heavier than, lighter than ● measure and begin to record the following: lengths and heights; mass/weight ● use both standard and non-standard units ● to use manageable common standard units using measuring tools, such as a rule, weighing scales and containers	Part, whole, equal, unequal, half, divide, half, share, divide, quarter, divide, clockwise, anti-clockwise, three-quarter.		- Measuring the height of castles and the length of their wands/hats. - Weighing their potions.
	Numbers and Place Value to 50	● Sequencing numbers ● Groups of 10	● count to fifty, forwards and backwards, beginning with 0 or 1, or from any given number ● count in twos, fives and tens.	More, less, numbers to 50, multiple of 10, group of 10,		

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			• Exploring tens and ones • Place value • Compare and order numbers using a place value chart • Compare and order numbers using a number line • Counting in 2's and 5's • Number patterns	• count, read and write numbers from 1 to 50 in numerals and begin to in words • identify, represent and compare numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least • given a number, identify one more and one less • order numbers within 50 using a place value chart and dienes • recognise the place value of each digit in a two-digit number (tens, ones) (Y2)	twenty, thirty, fourty, fifty, pattern, ones, digit, left, right, place value, part, whole, greater, greatest, less, least, smaller, smallest, order, compare, between, less than, more than, greater than, groups of five, pattern, increase, decrease.			
Summer 1 **Climate Change**	Numbers 50 to 100 and beyond	• Counting in 10's and on in 1's • Place value up to 99 • One more, one less, ten	• count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number; count on and back in twos fives and tens using 100 square/number lines as well as partially filled in number lines	Tall, taller, tallest, short, shorter, shortest, long, longer, longest, low, lower, high, higher, height, length, measure,	-Comparing how temperatures have changed in different habitats. -Exploring how climate change is		

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			more, ten less, ● Comparing using a number line and place value chart ● Sequencing numbers ● Number patterns	● count, read and write numbers from 1 to 100 in numerals and words; read and write numbers to at least 100 in numerals ● given a number, identify one more and one less; ten more and ten less ● identify, represent and compare numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least ● recognise the place value of each digit in a two-digit number (tens, ones) (Y2)		measurement, close to, roughly, nearly, about, about the same as, size, compare, unit, metre stick, metre, one half, estimate, double, balance, heavy, light, heavier, lighter, heaviest, lightest, weight, mass, level, approximately, predict, kilogram (kg).	affecting the number of trees and animals.	
	Addition and subtraction within 100	● Number bonds ● Add and subtract two digit numbers and ones ● Add subtract two digit numbers and		● represent and use number bonds and related subtraction facts within 20 and beyond based on their knowledge of number bonds ● 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 (Y2)		Groups of ten, tens, ones, count on, place value, dienes, hundreds, place value chart, number bond, multiple of ten, part-whole model, one more, ten		

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			ones with regrouping	● read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs ● solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems ● add and subtract one-digit and two-digit numbers, including zero - regrouping and bridging 10 ● estimate to check answers ● discuss and solve one step problems that involve addition and subtraction, using pictorial representations, concrete objects and missing number problems		more, one less, ten less, one fewer, ten fewer, greater than, less than, compare, most, least, equal to, increase, decrease, sequence, pattern.		
	Money	● Properties of coins ● Value ● Comparing amounts ● Exchanging money for objects	● understand the properties of coins including shape and colour ● recognise and know the value of different denominations of coins and notes ● compare values of coins based on knowledge of what they are made up of ● solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems		Coin, round, heptagonal, gold, silver, copper, pence, penny, value, worth, notes, pound, greatest value, least value, most, add, subtract, column, row, buy	- Set up class shops related to what they might sell in their shop when they grow up. - Role playing visiting the shops when they are an adult.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

						sell, afford, total, altogether, change.		
Summer 2 **When I grow up**	Multiplication and division	● Paying and giving change ● Doubling and halving ● Repeated addition ● Division as sharing ● Division as grouping ● Arrays ● Halves and quarters	● recognise, find and name a half and double as one of two equal parts of a quantity ● counting in two's, fives and tens – skip counting in 2's or in multiples e.g. 10, 20, 30 or 1 ten, 2 tens, 3 tens ● arrays; make connections between arrays, number patterns ● grouping and sharing small quantities to begin understanding multiplication and division; doubling numbers and quantities' finding simple fractions of objects, number and quantities - adding equal groups - making equal groups by grouping - making equal groups by sharing		Double, half, equal parts, whole, halve, equal groups, unequal groups, groups of, lots of, altogether, repeated addition, sides, share, fair, equally, array, column, row, fraction, divide, quarter.		
	Measures: Capacity and Volume	● Comparing capacity ● Comparing volume ● Halves and quarters ● Standard units	● compare, describe and solve practical problems for: lengths and heights for example, long/short, longer/shorter, tall/short, double/half; mass/weight for example, heavy/light, heavier than, lighter than; capacity and volume for example, full/empty, more than, less than, half, half full, quarter		Compare, capacity, greater, smaller, unit, about, volume, half, quarter, equal, litre, standard unit, distance, length, difference,	-Comparing how our height has changed as we grow up.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

			● Difference and distance ● Using length and weight ●	● measure and begin to record the following: lengths and heights; mass/weight; capacity and volume		measure, same, weighing scales, gram.		
	Problem Solving			● practise ordinal numbers and solve simple concrete problems ● discuss and solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems ● solve problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with support of teacher				

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Year 1 Maths Meeting		
Autumn	**Spring**	**Summer**
Number: ● Count to twenty, forwards and backwards, beginning with 0 or 1, or from any given number in 2's, 5's and 10s. ● Double and halve numbers within 10 ● Represent and use number bonds within 10 (using a range of representations including part-whole model) Shape: ● Name, recognise, sort and classify 2D and 3D shapes Measures: ● Compare, describe and order capacities, lengths and heights Time: ● Tell the time to the hour and introduce half past the hour ● Measure and begin to record time (hours, minutes, seconds	Number: ● Count to twenty, forwards and backwards, beginning with 0 or 1, or from any given number in 2's, 5's and 10s using skip counting – as well as counting up in odd numbers ● Represent and use number bonds within 10 (using a range of representations including part-whole model) ● Double and halve numbers within 20 ● Using calculation strategies including: known fact, make 10, near doubles ● Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs and use inverse to check answers ● Sharing and grouping of sets of objects up to 20 Shape: ● Name, recognise, sort and classify 2D and 3D shapes using mathematical language to describe them	Number: ● Addition and subtraction strategies including: known fact, make 10, near doubles ● Recognise the place value of each digit in a two-digit number (tens, ones) ● Explore repeated addition on a part whole model (make links to multiplication and division) Shape: ● Name, recognise, sort and classify 2D and 3D shapes using mathematical language to describe them Time: ● Describe position, direction and movement, including whole, half, quarter and three-quarter turns, with reference to the clock face Money: ● Recognise and know the value of different denominations of coins and notes

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

● Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) Money: ● Recognise and know the value of different denominations of coins and notes	Measures: ● Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume Time: ● Tell the time to the hour and half past the hour and 1 or 2 hours before/after Money: ● Recognise and know the value of different denominations of coins and notes ● Begin to be able to add denominations of coins together ● Begin to exchange coins for others of equal amounts e.g. 5p = 5 1ps.	● Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Year 2				

Autumn 1	Numbers and Place Value within 100 (10 lessons)	Addition and Subtraction of 2-digit numbers (10 lessons)	Addition and subtraction word problems (5 lessons)	Graphs (5 lessons)
Autumn 2	Measures: Length (10 lessons)	Multiplication and Division: 2, 5 and 10 (15 lessons)		Time (5 lessons)
Spring 1	Time (5 lessons)	Fractions (10 lessons)		Addition and Subtraction of 2 digit numbers (10 lessons)
Spring 2	Money (10 lessons)	Face, shapes and patterns; lines and turns (15 lessons)		Measures: Mass (5 lessons)
Summer 1	Exploring calculation strategies (10 lessons)	SATS Prep Problem Solving (5 lessons)	SATS Week	Consolidation (5 lessons)
Summer 2	Capacity and Volume (10 lessons)	Numbers within 1000 (10 lessons)		Multiplication and Division: 3 and 4 (10 lessons)

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Year 2
Y1 Skills DFE Guidance Greater Depth Y3 Prep

Term and Overall Unit Focus:	Unit of Work:	Unit overview:	Skills:	Key vocabulary:	What this looks like in practise (topic related):
Autumn 1 **It's all Magic!**	Numbers and Place Value within 100	● Place value ● Tens and ones ● 2-digit partitioning ● Representing 2 numbers ● Comparing numbers to 100 ● Ordering numbers to 100 ● Number patterns ● Odd and even	● Counting forwards and backwards from any given number in any pattern ● count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward using bead strings, number lines and 100 squares with increasing fluency ● recognise the place value of each digit in a two-digit number (tens, ones) ● compare and order numbers from 0 up to 100; use <, > and = signs ● read and write numbers to at least 100 in numerals and in words ● use place value and number facts to solve problems and compare numbers within 50 and beyond ● Connect the way that numerals are written and their value e.g. 2 groups of 10 and 3 ones is 23 ● using place value of tens and ones to add numbers together and represent numbers using a part whole model	Group, ten, altogether, strategy, left over, ones, tens, 1-digit number, 2-digit number, value, worth, partition, represents, compare, greatest, smallest, greater than, less than, is equal to, order, increasing, decreasing, more, less, forwards,	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			● represent numbers to 100 by composing and decomposing two-digit numbers using standard and nonstandard partitioning. ● identify, represent and estimate numbers to 100 using different representations, including the number line ● Reason about the location of any two digit number in the linear number system, including identifying the previous and next multiple of 10			backwards, counting, odd, even.		
	Addition and subtraction of 2-digit numbers	● Number bonds to 20 (addition) ● Number bonds to 20 (subtraction) ● Adding and subtracting ones from a 2-digit number ● Add and subtract multiples of 10 ● Add and subtract tens	● recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 of 10s ● recall and use addition and number bonds to 10, 20 and use these to reason with and calculate bonds to and within 20 recognising other associate additive relationships ● find 10 more and 10 less from any given number ● add and subtracts 10's ● show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot ● subtracting tens or ones - crossing 10 ● adding tens and ones - crossing 10			Whole, part, tens, ones, partition, 'if I know… then I know…", number bonds, doubles, near doubles.		- Using farm animals as representations e.g. 5 cows on a ten frame and 5 pigs make ten (making link to the number bond). - Use the topic as a context for addition and subtraction e.g. the farmer had 10 sheep but sold 5 of them. How

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

			from a 2-digit number ● Adding and subtracting 2 digit numbers ● Adding 3 digit numbers	● add and subtract number, explaining their method verbally 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 ● Recognise the subtraction structure of 'difference' and answer questions of the form,"How many more…?" ● Calculating/adding with three numbers				many does he have left?
	Addition and subtraction word problems	● Introduce bar models as a representation and create, label and sketch bar models		● 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 ● recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems ● estimate the answer to a calculation and use inverse operations to check answers (Y3)		Whole, part, add, subtract, bar model, value, known, unknown, worth, more, fewer, amount, difference.	- Use the topic as a context for addition and subtraction e.g. the farmer had 10 sheep but sold 5 of them. How many does he have left?
	Graphs	● Pictograms ● Block diagrams ● Tally chart		● interpret and construct simple pictograms, tally charts, block diagrams and simple tables		Data, pictogram, table, collect, sort, interpret,	- Use Crash! Bang! unit topic of Firework night

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
		● Scaled pictogram	● ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ● ask and answer questions about totalling and comparing categorical data ● record, interpret, collate, organise and compare information ● read scales* where not all numbers on the scale are given and estimate points in between (The scale can be in the form of a number line, a practical situation or a graph axis.)			block diagram, tally, scaled.	etc. for recording and reading data. - How many fireworks have there been?	
	Measures: Length	● Measuring length in m ● Comparing lengths in m ● Measuring in cm ● Comparing length in cm ● Measuring lines ● Drawing lines ● Length word problems	● to compare measures including simple multiples such as 'half as high', 'twice as wide'. ● measure using cm, m and mm and record information using the correct standard abbreviations ● compare and order length and record the results using >, < and = ● choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers and scales ● apply knowledge of numbers to 100 to read scales to the nearest appropriate standard unit in the context of length (m/cm)			Length, long, short, longer, shorter, shortest, longest, measure, metre, estimate, longer than, shorter than, ruler, centimetre, about, exactly, the same as, known, unknown, whole, part.	- Use the topic as a context for measuring length e.g. the hospital is 25cm tall etc.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
Autumn 2 **Crash! Bang!** **Winter Wonderland**	Multiplication and division: 2, 5, and 10	• Multiplication symbols • Commutativity • Division as sharing and grouping • Multiplication problems • Doubling • Skip counting in 2's, 5's and 10's • Patterns in 2, 5, 10 times tables • Word problems	• grouping and sharing small quantities to begin understanding multiplication and division; doubling numbers and quantities' finding simple fractions of objects, number and quantities - adding equal groups - making equal groups by grouping - making equal groups by sharing • calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs • solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts • recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers and use them to solve simple problems, demonstrating and understanding of commutativity as necessary • show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot • connect the multiplication table to place value, and the 5 multiplication table to the divisions of a clock			Multiplication, repeated addition, groups of, rows, columns, part, whole, commutative, divide, share, equal, group, value, multiply, skip count, fives, two, ten.	Crash! Bang!: - There are 10 lots of fireworks, how many is that in total? - Some fireworks release 2 at a time. How many will there be after 1, 2, 3, or 4 have been set off? Winter Wonderland: Each child has 10 presents. There are 5 children? How many in total? Use presents or snowflakes to represent arrays.

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			● recall and use multiplication and division facts for 2, 5 and 10 and make deductions outside known multiplication facts by dividing by each number					
Spring 1	Time	● 24 hours in the day ● 60 minutes in an hour ● Quarter past ● Quarter to ● 5 past ● 5 to ● Sequencing events ● Duration in minutes and hours	● know the number of minutes in an hour and the number of hours in a day ● know o'clock, half past, quarter past and quarter to ● tell, read and write the time to five minutes, including quarter past/to the hour/half hour and draw the hands on a clock face to show these times ● compare and sequence intervals of time ● to find durations of time and compare them ● become fluent in telling the time on an analogue clock and recording it			Time, hour, day, night, morning, afternoon, evening, midday, midnight, hour, minute, hour hand, minute hand, scale, quarter past, half past, o'clock, quarter to, earlier, later, duration, start, finish.	- Use the topic to contextualise activities e.g Florence Nightingale worked for 5 hours in the hospital. If she started at 4 o'clock. When would she finish? - First Florence Nightingale went to the hospital

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

								and then she treated a patient.
Breaking News!	Fractions	• Fractions and division • Writing a fractions • Half of shapes • Thirds and quarters of shapes • Unit and non-unit fractions	• Make equal parts • Identify, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, number, shape, set of objects or quantity and know that all parts must be equal parts of the whole • write simple fractions for example, $\frac{1}{2}$ of 6 = 3 • recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ • unit fractions and non-unit fractions • count in fractions			Fraction, equal parts, whole, divide, one, share, half, quarter, numerator, denominator, vinculum, one half, one third, one quarter, halves, part, the same as.		
	Addition and subtraction of 2-digit numbers (regrouping and bridging)	• Regrouping including make 10 • Regrouping including round and adjust • Regrouping including near doubles	• recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 • show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot • 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			Make ten, regroup, partition, tens, ones, number line, number bonds, dienes, bar model, round and adjust add, subtract, double, near double.		

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods ● estimate the answer to a calculation and use inverse operations to check answers (Y3) ● Using 'Make Ten' and regrouping for addition ● Using 'Make Ten' and regrouping for subtraction ● Using near multiples to add and subtract ● Mentally adding with near doubles				
Spring 2 **Down on the Farm**	Money	● Recognise coins ● Pounds ● Finding a total amount with the same coins and different ● Giving change from a pound ● Giving change	● fluent in counting and recognising coins ● recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value ● counting money e.g. pence, pounds, notes and coins ● find and use different combinations of coins that equal the same amounts of money ● finding the total, difference and change ● solve simple and two step problems in a practical context involving addition and subtraction of money of the same unit, including giving change		Penny, pennies, pence, value, compare, greater, lower, one pound, pounds, coin, note, total, altogether, same as, equal to, change, count up, total, spent, all possibilities, systematically.	- Set up a magic shop for children to buy potions and wands etc.
	Face, shapes and patterns; lines and turns	● Explore, sort and describe 2D shapes	● identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces		Straight, curved, side, vertex, square, oblong,	- Identifying shapes from pictures or

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
		• Explore, sort and describe 3D shapes • Compare and sort 2D and 3D shapes (similarities and differences) • Line of symmetry in 2D shapes • Position, direction and rotation	• identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] • identify and describe the properties of 2-D shapes, including the number of sides and line of symmetry in a vertical line • compare and sort common 2-D and 3-D shapes and everyday objects • order and arrange combinations of mathematical objects in patterns and sequences • discuss and understand the differences of properties between both 2D and 3D shapes • understand the line of symmetry and multiple ways this can be found on a shape • use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)			rectangle, quadrilateral, triangle, circle, pentagon, hexagon, heptagon, octagon, right angle, straight lines, sides, vertices, symmetry, 2D shape, 3D shape, reflection, half, equal, exact, identical, sorting, venn diagram classify, criteria, properties, lines of symmetry, edge, vertex, cone, sphere, cylinder, pyramid, cuboid, apex, faces, depth, width,	models of castles or magic shows and comparing. - Children making their own magic scenes with 2D and 3D shapes.

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
							size, shape, repeating, the same, base, branching database, on, next to, in front of, behind, under, above, in between, left, right, below, start, end, route, forwards, backwards, clockwise, anti-clockwise, half, quarter, full turn, rotation, quarter turn, straight line.	
	Measures: Mass	● Weigh and compare masses in kilograms and grams	● introduce the concept of mass ● choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels ● compare and order mass and record the results using >, < and =				Kilogram, heavier than, lighter than, as heavy as, weigh, mass, unit, standard unit, gram,	- How tall am I now/was/will be? - How heavy/light am I now/was/will be?

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

				● apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of mass (kg/g) ● using known facts to derive new facts (2g + 2g =4g so 200g + 200g =400g)			1000, difference, total, multiply, divide, add, part, whole.	
Summer 1 **Climate Change**	Exploring calculation strategies	● Apply strategies to solve addition and subtraction equations ● Introduce column method		● recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ● show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot ● add and subtract numbers mentally, including: a two-digit number and ones; a two-digit number and tens; adding three one-digit numbers add and subtract numbers with up to two digits, using written methods			Make ten, number bonds, partition, round and adjust, known facts, near doubles, part, whole, known, unknown, add, subtract, more, fewer, less, difference, place value, tens, ones, column, is equal to, regroup.	
	SATS Prep Problem Solving			● to use place value and number facts to solve related problems to develop fluency ● solve problems with addition and subtraction: using concrete objects and pictorial representations, involving				- Problem solving activities related to the overall topic.

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
			numbers, quantities and measures applying their increasing knowledge of mental and written methods ● solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts ● use reasoning about numbers and relationships to solve more complex problems and explain their thinking ● solve unfamiliar word problems that involve more than one step					
Summer 2 **When I grow up!**	Measures: Capacity and volume	● Read and measure temperature ● Estimate, measure and understand litres and millilitres ● Compare and order capacities	● choose and use appropriate standard units to estimate and measure capacity (litres/ml) and temperature (°C) to the nearest appropriate unit, using scales, thermometers and measuring vessels ● compare and order volume and capacity and record the results using >, < and = ● apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of capacity (litres/ml) and temperature (°C) ● using known facts to derive new facts (2ml + 2ml =4ml so 200ml + 200ml =400ml)			Temperature, thermometer, unit of measure, degrees, Celsius, heat, hot, cold, warmer, cooler, more than, less than, estimate, capacity, one litre, volume, bar model, fractions, one	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
						half, double, one quarter, two quarters, three, quarters, millilitre, altogether, difference, number bonds, part, whole, total.		
	Numbers within 1000	• Represent numbers in different ways • Compare and use symbols • Read scales	• use place value and number facts to solve problems • identify, represent and estimate numbers to 1000 using different representations (Y3) • recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (Y3) • compare and order numbers up to 1000 (Y3) • read and write numbers up to 1000 in numerals and in words (Y3) • count from 0 in multiples of 100; find 10 or 100 more or less than a given number (Y3) • apply knowledge of numbers to 1000 to read scales • begin to understand zero as a place holder		Hundreds, tens, ones, place value chart, regrouping, numbers 0 – 99, whole, part, dienes, exchange, compare, greater than, less than, the same as, more, fewer, scale, mark, intervals.		

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!
	Multiplication and division: 3 and 4	• Relate 4 times table to doubling the 2 times table • Recognise inverse relationship	• recall and use multiplication and division facts for the 3 and 4 multiplication tables (Y3) • calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs • solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts • show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot • count from 0 in multiples of 4, 8, 50 and 100				Multiply, three, skip counting, number line, bead string, product, multiple of, group, part, whole, divide, array, share, commutative, multiplication, division, equal, bar model, problem solving, twice as many, three times as many, half of, one quarter of, one third of.	

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Year 2 Maths Meeting		
Autumn	**Spring**	**Summer**
Number: ● Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward ● Recognise the place value of each digit in a two-digit number (tens, ones) ● Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ● Add and subtract number, explaining their method verbally using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens ● find 10 more and 10 less from any given number Shape: ● Identify and describe the properties of 2-D and 3-D shapes, including the number of edges, vertices and faces and begin to make comparisons ● Use mathematical vocabulary to describe position, direction and movement Measures: ● Measure and compare using cm, m and mm and record information using the correct standard abbreviations ● Compare, describe and order capacities, lengths and heights	Number: ● Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ● Add and subtract number, explaining their method verbally using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens (regrouping) ● Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Shape: ● Identify and describe the properties of 2-D and 3-D shapes, including the number of edges, vertices and faces ● Use mathematical vocabulary to describe position, direction and movement Time: ● Know o'clock, half past, quarter past and quarter to ● Tell, read and write the time to five minutes, including quarter past/to the hour/half hour ● Connect the multiplication table to place value, and the 5 multiplication table to the divisions of a clock Money:	Number: ● Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ● Add and subtract number, explaining their method verbally using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens (regrouping) ● Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers ● Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) ● Solve problems with addition and subtraction using chosen mental and written methods ● Use and apply the inverse method to check answers Measures: ● Compare, describe and order capacities, lengths and heights ● Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume ● Recall standard unit's measurement including how many l in a L and how many cm in a m

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

● Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume ● Interpret and construct simple pictograms, tally charts, block diagrams and simple tables (create a daily tally chart e.g. travel to school/weather) Time: ● Know o'clock, half past, quarter past and quarter to Money: ● Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	● solve simple and two step problems in a practical context involving addition and subtraction of money of the same unit Measures: ● Compare, describe and order capacities, lengths and heights ● Measure and begin to record the following: lengths and heights; mass/weight; capacity and volume ● Recall standard units measurement including how many l in a L and how many cm in a m	● choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Time: ● Know o'clock, half past, quarter past and quarter to ● Tell, read and write the time to five minutes, including quarter past/to the hour/half hour ● Connect the multiplication table to place value, and the 5 multiplication table to the divisions of a clock ● compare and sequence intervals of time Money: ● solve simple and two step problems in a practical context involving addition and subtraction of money of the same unit

Children should;
● Recall simple number facts using songs or phrases
● Use a whiteboard and pen to make notes and use their workings out during MM
● Provide opportunities where children can recall different strategies to support workings out
● Engage in suitable challenges throughout including GD activities where appropriate

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Year 3 Progression of Skills 19-20

Year 3

Unit of work:	Skills:
Number sense and exploring calculation strategies (3 weeks)	● solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction ● recognise the place value of each digit (tens, ones), compare and order numbers up to 100 ● find 10 more or less than a given number ● read and write numbers up to 100 in numerals and in words ● solve number problems and practical problems involving these ideas ● identify, represent and estimate numbers using different representations, including the number line ● add and subtract amounts of money to give change, using both £ and p in practical contexts
Place value (2 weeks)	● identify, represent and estimate numbers using different representations ● find 10 or 100 more or less than a given number ● recognise the place value of each digit in a three-digit number (hundreds, tens, ones) ● compare and order numbers up to 1000 ● read and write numbers up to 1000 in numerals and in words ● solve number problems and practical problems involving these ideas ● count from 0 in multiples of 50 and 100
Graphs (1 week)	● interpret and present data using bar charts, pictograms and tables

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

	● solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables
Addition and subtraction (3 weeks)	● 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 ● estimate the answer to a calculation and use inverse operations to check answers ● solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
Length and perimeter (2 weeks)	● measure, compare, add and subtract: lengths (m/cm/mm) ● solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction ● measure the perimeter of simple 2-D shapes ● continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed … and simple equivalents of mixed units (for example, 5m = 500cm)
Multiplication and division (2 weeks)	● recall and use multiplication and division facts for the 3 and 4 multiplication tables ● count from zero in multiples of 4 ● solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Deriving multiplication and division facts (3 weeks)	● recall and use multiplication and division facts for the 3 and 4 multiplication tables ● write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods ● solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Time (2 weeks)	● tell and write the time using 12-hour analogue and digital clocks, including using Roman numerals from I to XII ● estimate and read time with increasing accuracy to the nearest minute ● record and compare time in terms of seconds, minutes and hours ● use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight ● know the number of seconds in a minute and the number of days in each month, year and leap year ● compare durations of events [for example to calculate the time taken by particular events or tasks]
Fractions (3 weeks)	● recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators ● recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators ● count up and down in tenths ● recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 ● recognise and show, using diagrams, equivalent fractions with small denominators ● add and subtract fractions with the same denominator within one whole [for example, 57 + 17 = 67] ● compare and order unit fractions, and fractions with the same denominators ● solve problems that involve all of the above

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
Theme	It's all Magic (Fairytale/ Traditional story focus)	Crash! Bang!	Winter Wonderland	Breaking News!	Chinese New Year Festival	Down on the Farm	Climate Change!	When I grow up!

Angles and shape (3 weeks)	● recognise angles as a property of shape or a description of a turn ● identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle ● identify horizontal and vertical lines and pairs of perpendicular and parallel lines ● draw 2-D shapes and make 3-D shapes using modelling materials ● recognise 3-D shapes in different orientations and describe them ● measure the perimeter of simple 2-D shapes
Measures (3 weeks)	● measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) ● solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction ● continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 5m = 500cm)
Securing multiplication & division (1 week)	● write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods ● recall and use multiplication and division facts for the 8 multiplication tables ● count from zero in multiples of 8
Exploring calculation strategies and place value (2 weeks)	● add and subtract numbers mentally ● find 1000 more or less than a given number; recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (Y4) ● order and compare numbers beyond 1000 (Y4)

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
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		● round any number to the nearest 10, 100 or 1000 (Y4)						

Year 6	
Unit of work:	**Skills:**
Unit 1	● read, write, order and compare numbers up to 10 000 000 and determine the value of each digit

Maths Progression of Skills 2021-2022

	Autumn 1	Autumn 2a (3 WEEKS) Autumn	Autumn 2b (4 WEEKS) Autumn	Spring 1a (4 WEEKS)	Spring 1b (2WEEKS)	Spring 2	Summer 1	Summer 2
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Integers & Decimals (2 weeks)	● round any whole number to a required degree of accuracy ● solve problems involving addition and subtraction ● solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
Unit 2 Multiplication and division (3 weeks)	● identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places ● use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy ● multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication ● multiply one-digit numbers with up to two decimal places by whole numbers ● divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context ● divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context ● use written division methods in cases where the answer has up to two decimal places ● identify common factors, common multiples and prime numbers ● perform mental calculations, including with mixed operations and large numbers ● solve problems which require answers to be rounded to specified degrees of accuracy
Unit 3	● find pairs of numbers that satisfy an equation with two unknowns ● use knowledge of the order of operations to carry out calculations involving the four operations

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Calculation problems (2 weeks)	- generate and describe linear number sequences - express missing number problems algebraically - solve problems involving addition, subtraction, multiplication and division
Unit 4 Fractions (2 weeks)	- use common factors to simplify fractions; use common multiples to express fractions in the same denomination - compare and order fractions, including fractions > 1 - associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 38] - recall and use equivalences between simple fractions and decimals, including in different contexts - generate and describe linear number sequences (with fractions) - add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
Unit 5 Missing angles and lengths (1 week)	gnise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. ess missing number problems algebraically bare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, rilaterals, and regular polygons
Unit 6 Coordinates and shape (2 weeks)	- use negative numbers in context, and calculate intervals across zero - describe positions on the full coordinate grid (all four quadrants) - enumerate possibilities of combinations of two variables - draw 2-D shapes using given dimensions and angles - draw and translate simple shapes on the coordinate plane, and reflect them in the axes

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	- recognise, describe and build simple 3-D shapes, including making nets - illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius - solve number and practical problems that involve all of the above
Unit 7 Fractions (1 week)	- multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 14 × 12 = 18] - divide proper fractions by whole numbers [for example, 13 ÷ 2 = 16] - recall and use equivalences between simple fractions and decimals, including in different contexts
Unit 8 Decimals and measures (3 weeks)	- solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate - use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places - convert between miles and kilometres - recognise that shapes with the same areas can have different perimeters and vice versa - recognise when it is possible to use formulae for area and volume of shapes - use simple formulae - calculate the area of parallelograms and triangles - calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3] - generate and describe linear number sequences (with decimals)
Unit 9	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

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Percentages and statistics (2 weeks)	● solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison ● interpret and construct pie charts and line graphs and use these to solve problems ● calculate and interpret the mean as an average
Unit 10 Proportion problems (2 weeks)	● solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts ● solve problems involving similar shapes where the scale factor is known or can be found ● solve problems involving unequal sharing and grouping using knowledge of fractions and multiples