

Early Learning Goals

Communication and Language

Listening, Attention and Understanding

- Listen attentively and respond to what they hear with relevant questions, comments and actions when being read to and during whole class discussions and small group interactions.
- Make comments about what they have heard and ask questions to clarify their understanding.
- Hold conversation when engaged in back-and-forth exchanges with their teacher and peers.

Speaking

- Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary.
- Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate.
- Express their ideas and feelings about their experiences using full sentences, including use of past, present and future tenses and making use of conjunctions, with modelling and support from their teacher.

Understanding the World

Past and Present

- Talk about the lives of the people around them and their roles in society.
- Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class.
- Understand the past through settings, characters and events encountered in books read in class and storytelling.

People, Culture and Communities

- Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps.
- Know some similarities and differences between different religious and cultural communities in this country, drawing on their experiences and what has been read in class.
- Explain some similarities and differences between life in this country and life in other countries, drawing on knowledge from stories, non-fiction texts and (when appropriate) maps.

The Natural World

- Explore the natural world around them, making observations and drawing pictures of animals and plants.
- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.
- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.

Personal, Social and Emotional Development

Self-Regulation

- Show an understanding of their own feelings and those of others, and begin to regulate their behaviour accordingly.
- Set and work towards simple goals, being able to wait for what they want and control their immediate impulses when appropriate.
- Give focused attention to what the teacher says, responding appropriately even when engaged in activity, and show an ability to follow instructions involving several ideas or actions.

Managing Self

- Be confident to try new activities and show independence, resilience and perseverance in the face of challenge.
- Explain the reasons for rules, know right from wrong and try to behave accordingly.
- Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

Building Relationships

- · Work and play cooperatively and take turns with others.
- · Form positive attachments to adults and friendships with peers.
- · Show sensitivity to their own and to others' needs.

Expressive Arts and Design

Creating with Materials

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
- Share their creations, explaining the process they have used.
- Make use of props and materials when role playing characters in narratives and stories.

Being Imaginative and Expressive

- Invent, adapt and recount narratives and stories with peers and their teacher.
- Sing a range of well-known nursery rhymes and songs.
- Perform songs, rhymes, poems and stories with others, and (when appropriate) try to move in time with music.

Mathematics

Number

- Have a deep understanding of number to 10, including the composition of each number.
- Subitise (recognise quantities without counting) up to 5.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

Numerical Patterns

- Verbally count beyond 20, recognising the pattern of the counting system.
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

Physical Development

Gross Motor Skills

- Negotiate space and obstacles safely, with consideration for themselves and others.
- Demonstrate strength, balance and coordination when playing.
- Move energetically, such as running, jumping, dancing, hopping, skipping and climbing.

Fine Motor Skills

- Hold a pencil effectively in preparation for fluent writing – using the tripod grip in almost all cases.
- Use a range of small tools, including scissors, paintbrushes and cutlery.
- · Begin to show accuracy and care when drawing.

Literacy

Comprehensior

- Demonstrate understanding of what has been read to them by retelling stories and narratives using their own words and recently introduced vocabulary.
- Anticipate (where appropriate) key events in stories.
- Use and understand recently introduced vocabulary during discussions about stories, non-fiction, rhymes and poems and during role play.

Word Reading

- Say a sound for each letter in the alphabet and at least 10 digraphs.
- Read words consistent with their phonic knowledge by sound-blending.
- Read aloud simple sentences and books that are consistent with their phonic knowledge, including some common exception words.

Nriting

- Write recognisable letters, most of which are correctly formed.
- Spell words by identifying sounds in them and representing the sounds with a letter or letters.
- Write simple phrases and sentences that can be read by others.





Mathematics in EYFS: What Maths Subject Leaders Need to Know

The EYFS framework is structured very differently to the national curriculum as it is organised across seven areas of learning rather than subject areas. The aim of this document is to help subject leaders to understand how the skills taught across EYFS feed into national curriculum subjects.

This document demonstrates which statements from the 2020 Development Matters are prerequisite skills for mathematics within the national curriculum. The table below outlines the most relevant statements taken from the Early Learning Goals in the EYFS statutory framework and the Development Matters age ranges for Three and Four-Year-Olds and Reception to match the programme of study for mathematics.

The most relevant statements for mathematics are taken from the following areas of learning:

- Communication and Language
- Mathematics

Mathematical Vocabulary						
Three and Four-Year-Olds	Communication a	ind Language	 Use a wider range of vocabulary. Understand 'why' questions, like: "why do you think the caterpillar is so fat?" 			
Reception	Communication and Language		Learn new vocabulary.Use new vocabulary throughout the day.			
ELG	Communication and Language	Speaking	 Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. 			

Number and Place Value Counting Three and **Mathematics** · Recite numbers past 5. Four-Year-Olds • Say one number name for each item in order: 1, 2, 3, 4, 5. • Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). **Mathematics** · Count objects, actions and sounds. Reception · Count beyond ten. FI G **Mathematics** Numerical · Verbally count beyond 20, recognising the pattern of the Patterns counting system. Identifying, Representing and Estimating Numbers Three and **Mathematics** · Fast recognition of up to 3 objects, without having to count Four-Year-Olds them individually ('subitising'). • Show 'finger numbers' up to 5. · Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. · Experiment with their own symbols and marks as well as numerals. **Mathematics** Reception Subitise. · Link the number symbol (numeral) with its cardinal number value.





Mathematics in EYFS: What Maths Subject Leaders Need to Know

ELG	Mathematics	Number	Subitise (recognising quantities without counting) up to 5.				
Reading and W	riting Numbers						
Three and Four-Year-Olds	Mathematics		 Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Experiment with their own symbols and marks as well as numerals. 				
Reception	Mathematics		 Link the number symbol (numeral) with its cardinal number value. 				
Compare and C	order Numbers						
Three and Four-Year-Olds	Mathematics		• Compare quantities using language: 'more than', 'fewer than'.				
Reception	Mathematics		Compare numbers.				
ELG	Mathematics	Numerical Patterns	 Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. 				
Understanding	Place Value						
Reception	Mathematics		 Understand the 'one more than/one less than' relationship between consecutive numbers. Explore the composition of numbers to 10. 				
ELG	Mathematics	Number	Have a deep understanding of numbers to 10, including the composition of each number.				
Solve Problems	S						
Three and Four-Year-Olds	Mathematics		• Solve real world mathematical problems with numbers up to 5.				
Addition and S	ubtraction						
Mental Calcula	ations						
Reception	Mathematics		Automatically recall number bonds for numbers 0-10.				
ELG	Mathematics	Number	 Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. 				
Solve Problems							
ELG	Mathematics	Numerical Patterns	• Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.				
Reception	Mathematics		 Subitise. Link the number symbol (numeral) with its cardinal number value. 				

Measurement						
Describe, Measure, Compare and Solve (All Strands)						
Three and Four-Year-Olds	Mathematics	 Make comparisons between objects relating to size, length, weight and capacity. 				
Reception	Mathematics	Compare length, weight and capacity.				



Telling the Time							
Three and Four-Year-Olds	Mathematics	 Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then' 					

Properties of Shapes					
Recognise 2D	and 3D Shapes and their Propertie	25			
Three and Four-Year-Olds	Mathematics	 Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'. Select shapes appropriately: flat surfaces for a building, a triangular pattern for a roof, etc. Combine shapes to make new ones – an arch, a bigger triangle, etc. 			
Reception	Mathematics	 Select, rotate and manipulate shapes in order to develop spatial reasoning skills. 			
Compare and Classify Shapes					
Reception	Mathematics	 Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can. 			

Position and Direction						
Position, Direc	tion and Movement					
Three and Four-Year-Olds	Mathematics	 Understand position through words alone – for example, "The bag is under the table," – with no pointing. Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind'. 				
Reception	Understanding the World	Draw information from a simple map.				
Patterns						
Three and Four-Year-Olds	Mathematics	 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. 				
Reception	Mathematics	Continue, copy and create repeating patterns.				

Statistics						
Record, Present and Interpret Data						
Three and Four-Year-Olds	Mathematics	 Experiment with their own symbols and marks, as well as numerals. 				







	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk9
Autumn 1	Place value Within 10 Sort objects Count objects Represent objects Count, read and write forwards from any number 0 to 10 Count, read and writing backwards from any number 0 to 10 Count one more Count one less One to one corresponde nce to start to compare groups	Place value Within 10 Compare groups using language such as equal, more/greater, less/fewer Introduce = , > and < symbols Compare numbers Order groups of objects Order numbers Ordinal numbers (1st, 2nd, 3rd) The number line	Addition number bonds to 10 Part whole model Addition symbol Fact families – Addition facts Compare number bonds Addition: Adding together Addition: Adding more Finding a part	Addition number bonds to 10 Find number bonds for numbers within 10 Systematic methods for number bonds within 10 Number bonds to 10	Add and subtract Within 10 Find number bonds for numbers within 10 Systematic methods for number bonds within 10 Number bonds to 10	Add and subtract Within 10 Subtraction: Taking away, how many left? Crossing out Subtraction: Taking away, how many left? Introducing the subtraction symbol			
Autumn 2	Place value to 20 Count forwards and backwards and write numbers to 20 in numerals and words Numbers from 11 to 20 Tens and ones	Place value to 20 Count forwards and backwards and write numbers to 20 in numerals and words Numbers from 11 to 20 Tens and ones	Place value to 20 Count one more and one less Compare groups of objects Compare numbers Order groups of objects Order numbers	Add and subtract to 10 to include odd and even numbers Subtraction: Finding a part, breaking apart Fact families – The 8 facts	Add and subtract to 10 Subtraction: Counting back Subtraction: Finding the difference	Add and subtract to 10 Comparing addition and subtraction statements a + b > c Comparing addition and subtraction statements a + b > c + d	Assessment Week	Measurement Length and height Compare lengths and heights Taller than/shorter than etc. Long/wide etc Shape and space Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes Sort 2D shapes Patterns with 3D and 2D shapes	Measurement Length and height Non-standard units of measure Standard units of measure cm how to use a ruler to measure Shape and space Recognise and name 3D shapes Sort 3D shapes Recognise and name 2D shapes Sort 2D shapes Patterns with 3D and 2D shapes

Maths Medium term plan

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Spring 1	Add and subtract to 20 Add by counting on Find & make number bonds Add by making 10 Number bon ds to 20	Add and subtract to 20 To include doubling Add by counting on Find & make number bonds Add by making 10 Number bon ds to 20	Add and Subtraction – Not crossing 10 Subtraction – Crossing 10 (1) Subtraction – Crossing 10 (2) Related Facts Compare Number Sentences subtract to 20	Add and subtract to 20 Not crossing 10 Subtraction – Crossing 10 (1) Subtraction – Crossing 10 (2) Related Facts Compare Number Sentences subtract to 20	Measurement weight and volume Introduce weight and mass Measure mass/clarify the meaning of the word Compare mass	Place value within 50 Numbers to 50 Tens and ones Represent numbers to 50 One more one less	Place value within 50 Compare objects within 50 Compare numbers within 50 Order numbers within 50	
	Discoursius		D.4					
Spring 2	Place value within 50/100 (multiples of 2,5, and 10)	Geometry position and direction Describe turns Describe Position half turn full turn Describe Position quarter turn	Measurement Weight and volume Introduce capacity Measure capacity Compare capacity	Assessment Week	Add and subtract to 20 Related Facts Recap number bonds to 20 Compare Number Sentences subtract/addition to 20			
Summer 1	Multiplicatio n and division Count in 10s Make equal groups Add equal groups	Multiplication and division Make arrays Make doubles	Multiplication and division Make equal groups - grouping Make equal groups - sharing	Fractions Halving shapes or objects Halving a quantity				
Summer 2	Fractions Find a quarter of a shape or object Find a quarter of a quantity	Assessment Week	Place value within 100 Counting to 100 Partitioning numbers Comparing numbers (1) Comparing numbers (2) Ordering numbers One more, one less	Money Recognising coins Recognising notes Counting in coins	Time Before and after dates Time to the hour	Time Time to the half hour Writing time Comparing time		

Maths Medium term plan

Key- colour code

Place value	Mass and capacity (measure and compare)
Add and subtract	Geometry – Position and direction
Statistics	Assessment Week
Shape	Fractions
Mult and div	Money
Measures- Length/perimeter/area	Algebra
Time	Decimals and percentages
Decimals and percentages	Number – Ratio

Maths Medium Term Plan Year Two									
	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk9
Autumn 1	Place value Read and write numbers to at least 100 in numerals and in words. Recognise the place value of each digit in a two digit number (tens, ones)	Place value Identify, represent and estimate numbers using different representation s including the number line.	Place value Compare and order numbers from 0 up to 100; use <, > and = signs. Use place value and number facts to solve problems.	Place value Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward.	Add and Subtract Recall and use addition and subtraction facts to 20 fluently.	Add and Subtract Derive and use related facts up to 100.			
Big Maths		Estimation-What is my number?		Partitioning-Different ways of making the same number		Number bonds to 20			
Autumn 2	Add and Subtract Recognise and use the inverse relationshi p between addition and subtractio n and use this to	Add and Subtract Add numbers using concrete objects, pictorial representation s, and mentally, including: adding three one-digit numbers and a	Add and Subtract Subtract numbers using concrete objects, pictorial representations, and mentally, including: a two- digit number and ones.	Add and Subtract Add and subtract a two-digit number and tens;	Assessment Week	Add and Subtract Adding two two- digit numbers;	Add and Subtract Subtracting two two-digit numbers;	Statistics Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of	

	check calculation s and solve missing number	two-digit number and ones.					objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.	
Rig Maths								
Spring 1	Multiplica tion and division Show that the multiplicat ion of two numbers can be done in any order (commuta tive) and division of one number by another cannot.	Multiplication and division Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.	Multiplication and division Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.	Multiplication and division Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.	Money Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money.	Money Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.		
Big Maths				Home Learning				
Spring 2	Multiplica tion and division	Multiplication and division	Multiplication and division	Fractions Recognise, find,	Fractions Recognise, find,			
		Recall and use	RECAP AFTER	name and write	name and write			

	Recall and use multiplicat ion and division facts for the 2, 5 and 10 times tables,	multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.	HOME LEARNING	fractions 13, 14, 24 and 34 of a length, shape.	fractions of sets of objects or quantities. Write simple fractions for example, 12 of 6 = 3 and recognise the equivalence of 24 and 12.			
	including							
	g odd and							
	even							
	numbers.							
Big Maths								
Summer 1	Measure	Addition and	Shape	Multiplication and	Fractions	Assessment	Position and	
	Compare	Subtraction	Identify and	Division	Recap	Week	Direction	
	and order	Recap	describe the	Recap		(SATs Papers)	Order and	
	mass,		properties of 2-D				arrange	
	volume/ca		shapes, including				combinations of	
	pacity and		the number of				mathematical	
	record the		sides and line				objects in	
	results		symmetry in a				patterns and	
	using >, <		vertical line.				sequences	
	and –		Identify and					
			describe the					
			properties of 3-D					
	Choose		shapes, including					
	and use		the number of					
	appropriat		edges, vertices					
	units to		and faces.					
	estimate		Identify 2-D					
	and		shapes on the					
	measure		surface of 3-D					
	length/hei		shapes, [for					

						-		
	ght in any		example, a circle					
	direction		on a cylinder and					
	(m/cm)·		a triangle on a					
	mass		nyramid 1					
	(kg/g)		pyranna.j					
	(Kg/g),							
	temperatu		Compare and sort					
	re (°C);		common 2-D and					
	capacity		3-D shapes and					
	(litres/ml)		everyday objects.					
	to the							
	nearest							
	appropriat							
	eunit							
	using							
	rulors							
	rulers,							
	scales,							
	thermome							
	ters and							
	measuring							
	vessels.							
	vessels.							
	vessels.							
Big Maths	vessels.		SATs					
Big Maths	vessels.	Time	SATs Spirited Arts	Problem Solving	Problem Solving			
Big Maths Summer 2	Time	Time	SATs Spirited Arts Week	Problem Solving BIG MATHS	Problem Solving BIG MATHS			
Big Maths Summer 2	vessels. Time Tell and	Time	SATs Spirited Arts Week	Problem Solving BIG MATHS	Problem Solving BIG MATHS			
Big Maths Summer 2	Time Tell and write the	Time Know the	SATs Spirited Arts Week	Problem Solving BIG MATHS	Problem Solving BIG MATHS			
Big Maths Summer 2	Time Tell and write the time to	Time Know the number of	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems	Problem Solving BIG MATHS To solve problems			
Big Maths Summer 2	Time Tell and write the time to five	Time Know the number of minutes in an	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition	Problem Solving BIG MATHS To solve problems involving			
Big Maths Summer 2	Time Tell and write the time to five	Time Know the number of minutes in an hour and the	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and			
Big Maths Summer 2	Time Tell and write the time to five minutes,	Time Know the number of minutes in an hour and the number of	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and write the time to five minutes, including	Time Know the number of minutes in an hour and the number of hours in a day.	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and write the time to five minutes, including quarter	Time Know the number of minutes in an hour and the number of hours in a day. Compare and	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and write the time to five minutes, including quarter past/to	Time Know the number of minutes in an hour and the number of hours in a day. Compare and sequence	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and write the time to five minutes, including quarter past/to the hour	Time Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and write the time to five minutes, including quarter past/to the hour and draw	Time Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands	Time Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock	Time Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and Time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to	Time Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show	Time Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			
Big Maths Summer 2	Tell and Time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these	Time Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.	SATs Spirited Arts Week	Problem Solving BIG MATHS To solve problems involving addition and subtraction.	Problem Solving BIG MATHS To solve problems involving multiplication and division.			

Big Maths						

Key- colour code

Place value	Mass and capacity (measure and compare)
Add and subtract	Geometry –
	Position and direction
Statistics	Assessment Week
Shape	Fractions
Mult and div	Money
Measures- Length/perimeter/area	Algebra
Time	Decimals and percentages
Decimals and percentages	Number – Ratio

Measure

Year	3
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	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9
Autumn 1	Place value Consolidate two- digit place value knowledge. 1/10 more/less.	Place value Place value of 3- digit numbers, order and compare.	Place value 1/10/100 more/less.	Add and subtract Mental Re-cap mental addition and subtraction using two-digit numbers. Mental addition and subtraction using three-digit numbers.	Add and subtract written Re-cap two-digit written method for column addition. Teach column addition for three-digit numbers.	Add and subtract written Re-cap column subtraction for two-digit numbers. Teach column subtraction for three-digit numbers.	Add and subtract Reasoning and problem- solving. Addition and subtraction – inverse.		
Autumn 2	Multiplication Mental methods Understanding arrays and groups for 2, 5 and 10.	Multiplication Mental methods for 3, 4, 6, 8,.	Multiplication Written method – expanded column method.	Division Mental methods – recapping sharing and grouping. 2, 5, 10	Division Mental methods – sharing and grouping for 3, 4, 6, 8,	Division. Written methods for division – grouoing on a number line.	Assessments	Consolidation Mental maths and written methods.	Consolidation Mental maths and written methods.
Spring 1	Money Value Converting between pounds and pence.	Money Re-cap addition and subtraction.	Fractions Fraction of a shape Unit and non-unit fractions	Fractions Tenths as a fraction and decimal Fraction of an amount	Fractions Equivalent Fractions	Fractions Adding and subtracting fractions			
Spring 2	2D Shape Recap names and properties	3D Shape Recap names and properties	Consolidation	Assessments	Turns, angles and lines Clockwise/ anti-clockwise Half turn, quarter turn, three-quarter turn Left/right/forward/backward/up/down	Turns, angles and lines Acute, right- angles and obtuse Parallel and perpendicular lines	Length and perimeter Measuring sides accurately and mental addition.		
Summer 1	Measurement – length and perimeter and converting.	Time Recap O'clock, half past, quarter past and quarter to.	Time Nearest 5mintues and minute	Time Digital and analogue Problem solving					
Summer 2	Mass and Capacity Reading scales	Mass and Capacity – converting measurements	Consolidation	Assessments	Statistics Tables, pictogram, bar charts, tally Answering guestions and reading data	Consolidation			

Year 3

Place value- 11 days 10

Add and subtract – 24 days 16

Mult and division – 33 days 24

Fractions – 21 days 20

Shape – 8 days 8

Statistics- 4 days 8

Length and perimeter – 9 days 12

Time- 8 days 12

Mass and capacity- 10 days 12 days

Money – 3 days 8days

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Autumn		Place Valu	le	Rour	nding	Add	ition	Subtr	action	Measur Tin	ement: ne Multip		lication
Spring	Div	ision		Fractions	1		Decimals		M Leng	Measurement: Length and Money			
Summer	Geor Prope Sh	netry: rties of apes	Geom Symn	netry: netry	Measur Arec Perin	rement: a and neter	Geom Positio Direo	etry: on and ction	Measu T	Measurement: Measur Time Stati		rement: listics	

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
	Week 1 Week 2	Week 3	Week 4	Week 5 Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number:	Place Valu	e	Number: Addi Subtracti	lon and on	Measu Leng Perir	rement: th and neter	Numb	er: Multip Ind Divisio	lication on
Spring	Number: Multiplication and Division			Number: Fractions			Nun	nber: Deci	mals	Consolidation
Summer	Number: Decimals	Measu Mo	rement: ney	Measurement: Time	Statistics	Geon Prope Shi	netry: rtles of ape	Geon Positio Dire	netry: on and ction	Consolidation

Maths Year 5												
	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk9			
Autumn 1	Consolidate Year 4	Number and Place value	Number and Place value	Number and Place value	Addition and subtraction	Addition and subtraction Problem solving focus						
		Numbers to 10,000 Round to the nearest 10, 100 and1000. Numbers to 100,000 Compare and order numbers to 100,000	Round numbers within 100,000 Counting in 10s, 100s, 1000s and 10,000s Numbers to 1 million.	Compare and order numbers to 1 million Round numbers to 1 million. Negative numbers. Roman numerals to 1,000.	Add whole numbers up to and over 4 digits. Subtract whole numbers up to and over 4 digits. Rounding to estimate and approximate. Reference back to nlace value	Multi-step problem solving. Introduce RURCC. Inverse operations. Reference back to place value.						
Big Maths		Henry VIII and his Jewels – Combinations /systematic		Pentominoes – logical thinking	Tarsia –addition and subtraction							
Consolidati on	Place Value	Place Value	Place Value	Place Value, Addition and Subtraction	Place Value, Addition and Subtraction	Place Value, Addition and Subtraction						
Autumn 2	Multiplicati on and division.	Multiplication and division	Multiplication and division	Multiplication and division	Multiplication and division	Angles	Angles	Assessment week	Reviewing assessment week.			
	Multiples and factors. Prime Numbers. Multiply by 10, 100 and 1000. Divide by 10, 100 and 1000.	Multiples and factors. Prime Numbers. Multiply by 10, 100 and 1000. Divide by 10, 100 and 1000.	Multiply 4-digits by 1-digit Multiply 2-digits (area model) Multiply 2- digits by 2-digits Multiply 3-digits by 2-digits Place value	Multiply 4-digits by 1-digit Multiply 2- digits (area model) Multiply 2-digits by 2-digits Multiply 3- digits by 2-digits Place value	Divide 4-digits by 1- digit Divide with remainders	Missing numbers on straight lines and around a point.	Missing angles in shapes.					
Big Maths		Prime numbers investigation		Planning a day at the theme park - calculation		Angles Investigation (Start the week with)		12 Days of Christmas – calculation+alg ebra				

	Maths Year 5											
Consolidati on	Common denominat or fractions, Addition, subtraction, multiplicati on and division	Addition, subtraction, multiplication and division	Common denominator fractions Addition, subtraction, multiplication and division	Addition, subtraction, multiplication and division	Common denominator fractions Addition, subtraction, multiplication and division	Calcı ar	ualtion, ngles	Calcua ang	ltion, les	Calcualtion, angles		Calcualtion, angles
Spring 1	Angles	Fractions	Fractions	Fractions	Time (Year 3 &4 consolidation) FDP							
	Using a protractor to measure and draw angles.	Equivalent fractions – decimal equivalents. Mixed numbers and improper fractions. Ordering and comparing.	Addition and subtraction with fractions.	Fractions of numbers and multiplying fractions.	Can tell the time. Solve problems involving time.							
Big Maths	Space Logic		Magic V - addition, subtraction + parametres.		Constellations (angles)							
Consolidati on	Multiplicati on and division	Place value and calculation	Place value and calculation	Place value and calculation	Fraction calculation							
Spring 2	FDP	FDP	FDP	2D shape Area and Perimeter	2D shape Area and Perimeter							
	Decimals as fractions Division with decimals. Problem solving with decimals	Understandin g percentages Percentages as fractions. Equivalent FDP	Problem solving	Find perimeter and area of 2D, rectilinear shapes using knowledge of rectangles.	Find perimeter and area of 2D, rectilinear shapes using knowledge of rectangles.							

				Ma	ths Year 5			
	and fractions (RURCC)							
Big Maths		Tarsias - calculation Nets investigation		Building Pyramids – 3d volume area perimeter				
Consolidati on	FDP	FDP	Calculation	Calculation				
Summer 1	3D and volume	3D and volume	Time	Time	Stats	Converting units of measure		
	Recognise 2D representat ion of 3D shapes. Understand language. Reasoning What is volume? Compare volume Estimate volume Estimate capacity Cubed numbers	Recognise 2D representatio n of 3D shapes. Understand language. Reasoning What is volume? Compare volume Estimate volume Estimate capacity Cubed numbers	Can tell the time. Solve problems involving time. Read and interpret time tables. Solve problems involving time tables.	Can tell the time. Read and interpret time tables. Solve problems involving time tables	Read and interpret tables Two way tables. Read and interpret line graphs Draw line graphs Use line graphs to solve problems Negative numbers Place value to millions. Problem solving.	Read and interpret tables Two way tables. Read and interpret line graphs Draw line graphs Use line graphs to solve problems Negative numbers Place value to millions. Problem solving. Kilograms and kilometres Milligrams and		

				Ma	ths Year 5				
						millilitres Metric units Imperial units Multiplying and dividing by 10, 100 and 1000.			
Big Maths	Summer sales!		Problem writing						
Consolidati on	Stats	X / 10 100 1000	Conversions	Conversions					
Summer 2		Reading scales	Mass and Weight	Translation And reflection					
		Read a variety of scales. Understand increments and how to find the increments. Division Fractions of numbers (increments).	Convert between mass and weight Understanding measure in g and kg. Conversion between the two Multiplying and dividing by 10, 100 and 1000.	Position in the first quadrant Reflection with coordinates Translation with coordinates Properties of shapes. Position in the first quadrant Reflection with coordinates Translation with					
Big Maths		Maths art		Mathpretician					
Consolidati on	Shape	Time/measur ement	Negative numbers	Fractions					

Key- colour code

Place value	Mass and capacity (measure and compare)
Add and subtract	Geometry –
	Position and direction
Statistics	Assessment Week
Shape	Fractions
Mult and div	Money

BIG MATHS IDEAS-Autumn 1-Autumn 2-Spring 1-Spring 2-Summer 1-Summer 2-

Measures- Length/perimeter/area	Algebra
Time	Decimals and percentages
Decimals and percentages	Number – Ratio

	Wk 1	Wk 2	Wk 3	Wk 4	V	/k 5	Wk 6		Wk 7	Wk 8	Wk9
Autumn 1	Pla Read, write, or numbers up to determine the Round any who required degree Use negative n and calculate in Solve number a problems that above Identify the val numbers given places and mul 100 and 1000 g 3dp.	ace Value der and compare 10 000 000 and value of each digit. ole number to a se of accuracy. umbers in context, ntervals across zero. and practical involve all of the Decimals lue of each digit in to three decimal ltiply numbers by 10, giving answers up to	Cal Solve addition and subtr contexts, deciding which use and why. Identify common factors prime numbers. Use their knowledge of t carry out calculations inv Solve problems involving multiplication and divisio Use estimation to check determine in the c appropriate d Multiply one digit number numbers. Use written division met answer has up to two de Solve problems which re to specified d	culation action multi step problems in operations and methods to s, common multiples and the order of operations to <i>v</i> olving the four operations. g addition, subtraction, on. canswers to calculations and ontext of a problem, an legree of accuracy. Actimals ers with up to 2dp by whole chods in cases where the eximal places. equire answers to be rounded egrees of accuracy	Year 6	Castleton	Calculation Multiply multi-dig number up to 4 d by a 2 digit numb using the formal written method of long multiplicatio Divide numbers u 4 digits by a 2 dig whole number us the formal writter method of long division, and interpret remainders, fract or by rounding as appropriate for th context. Divide numbers u 4 digits by a 2 dig number using the formal written method of short division, interpret remainders accor to context. Perform mental calculations, including with mi-	git igits er if n. p to it ing n ders ions he p to it cing ding ked rge	HALF TERM		
Consolidat ion	Mental Addition	Mental Subtraction	Doubling	Halving	Multi F	plication acts	Known facts				
Investigati ve Maths		Murder Mystery Systematic working		Tarsia Multiplication Long multiplication Calculation Missing numbers Problem solving							
Autumn 2	Fractions Use common multiples to e denomination Compare and Generate and fractions) Add and subt	factors to simplify fr express fractions in th n. I order fractions, incl d describe linear num cract fractions with d	ractions; use common he same uding fractions > 1 nber sequences (with ifferent	FDP Associate a fraction with div calculate decimal fraction ec for example, 0.375] for a sim [for example] Recall and use equivalences simple fractions, decimals ar percentages, including in dif contexts.	ision and juivalents [iple fraction between id ferent	Assessment w	reek <u>Geometry-</u> Properties <u>Shapes</u> Draw 2D sh using given dimensions angles. Cor and classify geometric	of napes s and npare / shapes	Geometry- Position Describe positions o grid (all four quadrar Draw and translate s coordinate plane, an axes.	and Direction n the full coordinate nts). simple shapes on the nd reflect them in the	Geometry and Statistics Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice

	denomination of equivalent fractions, writ example x =] Divide proper ÷ 2 =] Number: Perce Solve problems example, of me percentages for Recall and use e different contes	is and mixed number fractions. Multiply si ing the answer in its fractions by whole r ntages involving the calculation asures and such as 15% r comparison. equivalences between sets.	rs, using the concept imple pairs of proper a simplest form [for numbers [for example on of percentages [for 6 of 360] and the use of simple FDP including in	Number: Percentages Solve problems involving the of percentages [for example, measures and such as 15% of the use of percentages for co Recall and use equivalences simple FDP including in differ contexts.	e calculation , of f 360] and omparison. between rent		based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.			the radius.
Consolidat ion										
Investigati ve Maths				WW2 Code breaking Reasoning			Battle of Britain Fractions of amounts Reasoning	Xmas cards: working systematically	Dunkerque Evacuation Logic and Reasoning	
Spring 1	Geometry and Measures – Angles Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	Geometry and Measures – Angles Interpret and construct pie charts and line graphs and use these to solve problems. Calculate the mean as an average.	Assessment Week	Measurement Volume Recognise that shapes with t different perimeters and vice Recognise when it is possible and volume of shapes. Calculate the area of paralle Calculate, estimate and com cuboids using standard units extending to other units (mr	the same areas can h e versa. e to use formulae for lograms and triangle pare volume of cube s, including cm3, m3 n3, km3)	nave r area s. es and and	Measurement 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 3dp. Convert between miles and kilometres. Time			
Consolidat ion	Arithmetic Practice	Arithmetic Practice	Arithmetic Practice	Arithmetic Practice	Arithmetic Practice		Arithmetic Practice			
Investigati			Drawing and Measuring Pie Charts		Drawing perfect	shapes		Maths/Art		

ve Maths			(Charles Darwin)								
Spring 2	Data	Handling	Assessment Week	Number: Algebra Use simple formulae Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two variables.	Number: ratio Solve problems involvir values can be found by	ng the relative s using integer n	izes of two quan nultiplication and	tities where division fac	missing ts		
Consolidat ion	Arithmetic Practice	Arithmetic Practice	Arithmetic Practice	Arithmetic Practice	Arithmetic Practice	Arithmetic Practice	Arithmetic Practice				
Investigati ve Maths		Hotel and swimming pool design									
Summer 1	Revision Time at the end of the consolidati seasonal ac assessment	e beginning or term for on ,gap filling, ctivities, ts, etc.									
Big Maths		Mathe (Art Circles									
Summer 2		and Designs									
				Enterprise							
ve Maths				Litterprise							

Key- colour code

Place value	Mass and capacity (measure
	and compare)
Add and subtract	Geometry –
	Position and direction
Statistics	Assessment Week
Shape	Fractions
Mult and div	Money

Investigative MATHS IDEAS-Autumn 1-Autumn 2-Spring 1-Spring 2-Summer 1-Summer 2-

Measures- Length/perimeter/area	Algebra
Time	Decimals and percentages
Decimals and percentages	Number – Ratio