

Maths
Scheme of work
2024/25

Aims and Objectives

- To ensure greater consistency and continuity in planning, teaching and assessment of maths across all year groups.
- To enable children to have equal access to mathematics and to experience success in their work
- To promote enjoyment and enthusiasm for learning through practical activity, exploration and discussion
- To enable independent and group work for all children
- To allow children to develop transferable skills and informed opinions
- To develop, maintain and stimulate children's curiosity, interest and enjoyment in maths
- To develop children's familiarity with appropriate mathematical concepts, principles, methods and vocabulary
- To develop children's understanding of maths in its widest context and to see how it relates to themselves outside of school
- To develop the ability to solve problems through decision-making and reasoning in a range of contexts
- To promote confidence and competence with numbers and the number system
- To develop a practical understanding of the ways in which information is gathered and presented
- To explore features of shape and space
- To develop measuring skills in a range of contexts
- To understand the importance of maths in everyday life
- Above all, to raise standards through fun and enjoyment.

Maths

Scheme of Work

Teaching
Maths

Teaching Maths

We will personalise the learning for children within: Foundation Stage, Key Stage 1, Lower Key Stage 2 and Upper Key Stage 2

Lessons will need appropriate timetabling within these phases to allow teaching to meet children's specific needs

All children should be provided with the opportunity to participate in a daily mathematics lesson

Children should also have access to:

A 'five a day' programme

Intervention programmes should run throughout school as appropriate to the needs of the children:

Maths should be enhanced throughout school using opportunities for cross-curricular links, particularly, but not exclusively during our application of skills weeks.

Maths should permeate all areas of provision within the Foundation Stage and Key Stage 1

There should be a high profile of maths in the classroom using display, practical apparatus and activities, cross curricular links and literature to promote maths at every level

Emphasis must be given to the teaching of practical skills alongside knowledge

Planning should reflect formative assessment

Evidence should be accrued from observational assessment to provide valuable summative judgements

Moderation will take place regularly to ensure continuity and progression throughout school

Using the 'Five a Day' programme

The Five a Day programme will take place at the beginning of the daily maths lesson.

Children should be provided with 5 questions each day. Four of these should relate to the four operations and one further question which should relate to something previously taught

This programme should run from Foundation Stage to Year 6 and be matched to the level of the children.

Foundation Stage and Key Stage 1 may complete this in whole class or groups, orally, on whiteboards or more formally on paper when the teaching of number masters is not taking place.

Key Stage 2 children will all record their work using appropriate methods in a 'five a day' book.

Teachers or teaching assistants should then encourage children to verbalise their findings, methods and solutions

Mastering Number

KS1 children will work in small groups or whole class to follow the Mastering number programme of study each day.

Teachers and teaching assistants will lead a small group and build upon the children having a fundamental understanding of number.

There will be a focus on understanding of vocabulary and all staff will model the correct use of it in each session. Stem sentences are also used to embed learning and understanding of number facts and relations.

Sessions will be very practical in nature to help children develop their ability to manipulate numbers.

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Scheme of Work

Long Term Plan

Year Foundation Stage		Maths Long Term Planning Grid				2024/2025
Week	Autumn 1 8 weeks	Autumn 2 7 weeks	Spring 1 6 weeks	Spring 2 6 weeks	Summer 1 5 weeks	Summer 2 7 weeks
1	Number names Days of the week times of the day positional language	Counting	Subtraction through taking objects away	Number bonds	2d shapes	Estimate a number of objects
2	Subitising	Addition by combining two groups	Counting, writing and ordering numbers	Sorting	3D shapes	Ordinal number
3	Counting	Finding one more / one less than	Money	Measures	Doubling and halving	2D Shape / 3D Shape
4	Addition and Subtraction rhymes	Sorting	Finding one more / one less than	Creating patterns	Problem solving adding and subtraction	Doubling/ Halving sharing equal amounts
5	Comparing quantities / sets of objects	Ordering numbers	Problem solving & Position	Measures/ distance/ capacity	Measures/ distance/ capacity	Problem solving
6	Number recognition	Measures/ distance/ capacity	Make sets with the same number		Identifying Patterns odds and evens	Transition
7	Number sequences	Number sequences			Number bonds adding.	Transition
8						

Year 1		Maths Long Term Planning Grid					2024/2025
Week	Autumn 1 8 weeks	Autumn 2 7 weeks	Spring 1 6 weeks	Spring 2 6 weeks	Summer 1 5 weeks	Summer 2 7 weeks	
1	Place value to 10	Measures Length	Number Patterns / Place value to 50	Money	Problem Solving Using addition and subtraction	Place value to 100	
2	Place value to 20	2d shapes	Time	Fractions	Measures Height	Place value to 100	
3	Number bonds to 10	Position/direction	Addition	Place Value to 50	Measures Problem Solving using Weight, Length, Capacity	Money week	
4	Addition	Place value - More / Less than within 20	Understanding Shape 2D Shapes	Multiplication Counting in 2s, 5s and 10s.	Place Value to 100	Position and direction	
5	Subtraction	Addition Money	3d shapes	Application of skills week	Measures Time	AOS/ Preparation for year 2	
6	Subtraction	AOS	Subtraction	Volume		Transition	
7	Money	Measures Weight	Division			Transition	
8							

Year 2
2024/2025

Maths Long Term Planning Grid

Week	Autumn 1 8 weeks	Autumn 2 7 weeks	Spring 1 6 weeks	Spring 2 6 weeks	Summer 1 5 weeks	Summer 2 7 weeks
1	Place Value Partitioning numbers	Handling data Pictograms	Time	Money Division with remainders	Problem Solving Four operations	Money Four operations
2	Addition	Multiplication	Measures Time	Handling data Venn Diagrams and block graphs	Measures Problem Solving using Weight, Length, Capacity	Problem Solving Four operations
3	Subtraction	Addition	Money Multiplication	Multiples & Fractions	Measures Time	Understanding Shape Angles
4	More / Less than using signs < and >	Money Subtraction	Division	Measures Capacity	Application of skills week	Handling data Problem solving
5	Money	Measures Weight	Fractions	Application of skills week	Position and direction	Preparation for year 3
6	Number bonds	Application of skills week	Understanding Shape 2D / 3D shapes	Estimation / rounding		Transition
7	Measures Length	Understanding Shape/ Symmetry	Position and direction			Transition
8						

Year 3		Maths Long Term Planning Grid				2024/2025	
Week	Autumn 1 8 weeks	Autumn 2 7 weeks	Spring 1 6 weeks	Spring 2 6 weeks	Summer 1 5 weeks	Summer 2 7 weeks	
1	Partitioning numbers < and >	Multiplication	Doubles / Halves	Measures Capacity	Problem Solving Using numbers, images and diagrams	Money Two step problem solving	
2	Addition	Division	Money One step problem solving	Money One step problem solving	Subtraction	Problem Solving Using numbers, images and diagrams	
3	Measures Weight	Understanding Shape Symmetry 2D / 3D Shape	Measures Time - analogue	Addition	Fractions	Understanding Shape Angles	
4	Measures Length	Handling data Pictograms and Bar charts	Measures Time - analogue	Handling data Venn Diagrams and Carroll Diagrams	Application of skills week	Understanding Shape Compass direction	
5	Subtraction	Money Four operations	Length and perimeter	Application of skills week	Fractions	Preparation for year 4	
6	Measures Time - digital	Application of skills week	Fractions	Money Two step problem solving		Transition	
7	Measures Time - digital	Number bonds	Statistics			Transition	
8							

Year 4 Maths Long Term Planning Grid 2024/2025						
Week	Autumn 1 8 weeks	Autumn 2 7 weeks	Spring 1 6 weeks	Spring 2 6 weeks	Summer 1 5 weeks	Summer 2 7 weeks
1	Number Patterns / Place value	Money Four operations	Multiplication	Division	Problem Solving Using numbers, images and diagrams	Money Two step problem solving
2	Addition	Fractions	Money One step problem solving	Ratio / proportion	Decimals	Understanding Shape Compass direction / Co-ordinates Problem Solving Using numbers, images and diagrams
3	Measures Weight/length	Understanding Shape Symmetry 2D / 3D Shape	Measures Capacity	Addition / Subtraction	Fractions	Understanding Shape Angles
4	Measures Length	Handling data Pictograms and Bar charts	Measures Time Problem solving	Handling data Venn Diagrams and Carroll Diagrams	Application of skills week	Area
5	Subtraction	Positive and Negative numbers	Decimals	Application of skills week	Mental multiplication strategies	Preparation for year 5
6	Multiplication	Application of skills week	Fractions	Money Two step problem solving		Transition
7	Division	Number bonds	Understanding Shape Perimeter			Transition
8						

Year 5		Maths Long Term Planning Grid				2024/2025	
Week	Autumn 1 8 weeks	Autumn 2 7 weeks	Spring 1 6 weeks	Spring 2 6 weeks	Summer 1 5 weeks	Summer 2 7 weeks	
1	Number/ Place Value	Subtraction Rounding and estimating	Multiplication Rounding and estimating	Division Rounding and estimating	Four operations Money Problem Solving	Two step problem solving	
2	Addition Rounding and estimating	Four operations	One step problem solving	One step problem solving	Scales	Understanding Shape Angles	
3	Measures Conversions	Understanding Shape 2D / 3D Shape Visualisation / nets	Measures Time 24 hour clock Calendars Timetables	Problem Solving	Decimals Multiplication / division	Understanding Shape Perimeter / area	
4	Percentages	Handling data Frequency tables, Pictograms, Bar and line graphs	Fractions	Handling data Venn Diagrams, Carroll Diagrams, line graphs	Application of skills week	Co-ordinates, Reflection, translation	
5	Partitioning numbers < and >	Positive and Negative numbers	Fractions	Application of skills week	Decimals, percentages and fractions	Preparation for year 6	
6	Equivalent fractions	Application of skills week	Decimals, percentages and fractions	Ratio, proportion and probability		Transition	
7	Practical skills: measuring lines and angles, symmetry	Mental calculation strategies	Decimals, percentages and fractions			Transition	
8							

Year 6 Maths Long Term Planning Grid 2024/2025						
Week	Autumn 1 8 weeks	Autumn 2 7 weeks	Spring 1 6 weeks	Spring 2 6 weeks	Summer 1 5 weeks	Summer 2 7 weeks
1	Number/Place value	Multiplication	Ratio and Proportion	Test technique Misconception identification	Problem solving Multi-step, finding all possibilities, finding formula	Measures (application to other areas of the curriculum)
2	Addition	Sequences Formulae	Problem Solving Multi Step	SATS week		
3	Subtraction	Translation Rotation Reflection Coordinates	Time problems			
4	Perimeter and Area	Data Handling	Decimals, percentages and fractions	Shape	Algebra	
5	Division	Positive and negative numbers	Application of skills week	Shape	Shape/angles	Transition
6	Fractions	Application of skills week	Angles	Based on assessment gaps	Number	Transition
7	Multi-step problem solving Money	Problem Solving: Reasoning	Problem solving			
8						

Maths

Scheme of Work

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Objectives

Foundation Stage		Maths objectives	2024/2025
Week	Autumn 1 8 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Number names Days of week key times of day Positional language	Use number language e.g. one, two, three, how many, count etc. Key times in school day and days of the week. Positional language.	Days of the week and order of the school day. A range of counting songs, games and activities Number to be incorporated in all areas of provision
2	Subitising	Subitising to 5 instant recognising objects to 5	
3	Counting	Count aloud sets of objects, grouped regularly and irregularly Encourage children to follow number lines	
4	Addition and Subtraction rhymes	Use number language e.g. one, two, three, how many, count etc. Sing songs, play games and role play incorporating addition and subtraction	
5	Comparing quantities / sets of objects	Compare two groups of objects saying when they have the same number Use language such as: same as, less or fewer	
6	Number recognition	Add numerals to all areas of provision Introduce the concept of zero Use number stories to illustrate	
7	Number sequences	Forward number sequences Backward number sequences	

Foundation Stage		Maths objectives	2024/2025
Week	Autumn 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Counting	Count aloud sets of objects, grouped regularly and irregularly Encourage children to follow number lines	Rapid recall - Know number bonds 10
2	Addition by combining two groups	Combine two groups of objects Model finding a solution through counting / drawing Encourage children to record through drawing	A range of counting songs, games and activities Number to be incorporated in all areas of provision
3	Finding one more / one less than	Number songs, rhymes and stories Use questioning techniques to answer how many Use pictures and objects to illustrate	
4	Sorting	Sort sets of objects using given criteria Encourage children to sort independently using own criteria Give children the opportunity to explain choices	
5	Ordering numbers	Ask children what comes before or after a given number Place numbers on a given numberline	
6	Measures	Make comparisons between capacity/distance.	
7	Number sequences	Forward number sequences Backward number sequences	

Foundation Stage		Maths objectives	2024/2025
Week	Spring 1 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Subtraction through taking objects away	Count a given set of objects Pose questions and demonstrate taking away Model process	Rapid recall - know all addition and subtraction facts to 5.
2	Counting, writing and ordering numbers	Count given sets of objects Practice recording using a range of media Order numbers on a numberline Indicate 1-10 using fingers	A range of counting songs, games and activities Number to be incorporated in all areas of provision
3	Money	Use 1p, 2p and 5p coins Coin recognition Buying items using 1p, 2p and 5p coins up to a total of 10p	
4	Finding one more / one less than	Number songs, rhymes and stories Use questioning techniques to answer how many Use pictures and objects to illustrate	
5	Problem solving & Position	Reinforce previous learning in different contexts Explore position of objects e.g. in, on, under (refer to vocabulary sheet)	
6	Make sets with the same number	Investigate sets Recognise differences in quantity - more, less, same / equal	
7	Identifying Patterns odds and evens	Recognise simple number patterns Copy given patterns odds and evens	

Foundation Stage		Maths objectives	2024/2025
Week	Spring 2 6 weeks	Lesson focus	Automaticity - Rapid Recall <i>Lining up opportunities</i>
1	Number bonds	Investigate number bonds	<i>Rapid recall - Know doubles up to 5 + 5.</i> A range of counting songs, games and activities Number to be incorporated in all areas of provision
2	Sorting	Sort sets of objects using given criteria Encourage children to sort independently using own criteria <i>Give children the opportunity to explain choices</i>	
3	Measures	Investigate measures in context using practical ideas e.g will the bear fit in the bed?	
4	Creating patterns	Follow a given sequence / pattern Create own patterns	
5	Measures	Compare capacity and length	
6	Money	Use 1p, 2p, 5p and 10p coins Coin recognition Buying items using 1p, 2p, 5p and 10p coins up to a total of 20p	

Foundation Stage		Maths objectives	2024/2025
Week	Summer 1 5 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
$\frac{1}{2}$	2d/3d shapes	Shape matching within areas of provision Introduce mathematical names for 2D and 3D shapes Recognition of 2D and 3D shapes	Rapid recall - Know number bonds 4 A range of counting songs, games and activities Number to be incorporated in all areas of provision
3	Doubling and halving	Double and half amount within 10	
4	Problem solving adding and subtraction	Problem solving adding and subtraction 2 1 digit numbers	
5	Measures	Compare capacity and length	
6	Identifying Patterns odds and evens	Looking at number patterns and identifying an odd and even amount.	
7	Number bonds adding	Number bonds to 5 or 10	

Foundation Stage		Maths objectives	2024/2025
Week	Summer 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Estimate a number of objects	Encourage children to estimate in a range of contexts Use number names when estimating e.g. have you got enough to give me five?	Rapid recall - Know number bonds 5 A range of counting songs, games and activities Number to be incorporated in all areas of provision
2	Ordinal number	Use ordinal numbers to explain position - focusing on teen value	
3	2D Shape / 3D Shape	Shape matching within areas of provision Introduce mathematical names for 2D and 3D shapes Recognition of 2D and 3D shapes	
4	Doubling/ halving	Finding double and half of a 1 digit number Share to equal amounts.	
5,	Problem solving and deepen understanding	To be able to solve problems explain how and why using previously learnt knowledge	
6 & 7	Transition		

Year 1		Maths objectives	2024/2025
Week	Autumn 1 8 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Number Patterns / place value to 10	Recognise simple patterns using 2D shapes Create simple patterns using 2D shapes Apply a given repeated pattern Explain a given repeated pattern Order numbers to 10 Place numbers on a given number track / number line to 10	Rapid recall - 1.1 Know number bonds 10 0 + 10 10 + 0 1 + 9 9 + 1
2	Place value to 20	Recognise simple patterns in 3D shapes Create simple patterns in 3D shapes Apply a given repeated pattern Explain a given repeated pattern Order numbers to 20 Place numbers on a given number track / number line to 20	Rapid recall - 1.1 Know number bonds 10 2 + 8 8 + 2 3 + 7 7 + 3
3	Number bonds to 10	Find number bonds to 10 Record appropriately Work out the corresponding subtraction facts	Rapid recall - 1.1 Know number bonds 10 6 + 4 4 + 6 5 + 5 Recap all = TEST
4	Addition	Using numberlines to carry out simple addition within 20 Use vocabulary related to addition and =	Rapid recall - 1.2 Know number bonds 6 0 + 6 1 + 5 2 + 4 3 + 3
5	Subtraction	Using numberlines to carry out simple subtraction within 20 Use vocabulary related to subtraction and =	Rapid recall - 1.2 Know number bonds 6 3 + 3 4 + 2 5 + 1 6 + 0
6	Subtraction	Using numberlines to carry out simple subtraction within 20 Use vocabulary related to subtraction and =	Rapid recall - 1.2 Know number bonds 6
7	Money	Coin recognition - 1p, 2p, 5p, 10p Addition and subtraction using coins Paying and giving change	Rapid recall - 1.2 Know number bonds 6

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Year 1		Maths objectives	2024/2025
Week	Autumn 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Measures Length	Make comparisons between objects Measure objects using a ruler from '0' Order objects according to length Use centimetres and metres Use vocabulary related to length Use <, > and = to record results	Rapid recall - 1.3 Know number bonds 7
2	2d shapes	Recognise and name 2d shapes Sort 2d shapes	Rapid recall - 1.3 Know number bonds 7
3	Understanding Shape Positional Language	Use vocabulary related to position / direction Describe the position of objects Follow instructions relating to position / direction including left / right / whole, half and 3 /4 turns.	Rapid recall - 1.3 Know number bonds 7
4	More / Less than	Identify a number which is one more than / one less than a given number Identify a number which is ten more than / ten less than a given number	Rapid recall - 1.3 Know number bonds 7
5	Money	Coin recognition 1p, 2p, 5p, 10p, 20p, 50p, £1, £2 Addition and subtraction using coins Record appropriately Paying and giving change	Rapid recall - 1.3 Know number bonds 7
6	Application of skills week		Rapid recall - 1.3 Know number bonds 7
7	Measures Weight	Make comparisons between objects Weigh objects using a simple balance Order objects using weight / mass Introduce 'kilogram' Use vocabulary related to weight Use <, > and = to record results	Rapid recall - 1.3 Know number bonds 7

Year 1		Maths objectives	2024/2025
Week	Spring 1 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Number Patterns / place value to 50	Recognise simple patterns using 2D shapes Create simple patterns using 2D shapes Apply a given repeated pattern Explain a given repeated pattern Order numbers to 50 Place numbers on a given number track / numberline to 50	Rapid recall - 1.4 Know number bonds 8
2	Measures Time	Use vocabulary related to time including hours, minutes, seconds, quicker, slower, earlier, later Know hour and minute hand. Understand clockwise direction Tell the time using o'clock Sequence events in chronological order using language such as before, after, first, today, yesterday, tomorrow, morning, evening.	Rapid recall - 1.4 Know number bonds 8
3	Addition	Add a one digit number to a multiple of ten Add a multiple of ten to a one digit number Find that addition can be done in any order Record using + and = Record in different ways e.g. $7 = 5 + 2$	Rapid recall - 1.4 Know number bonds 8
4	Understanding Shape 2D Shape	Name and describe common 2D shapes including triangles (various kinds), rectangles, squares and circles Describe properties of 2D shapes that you can see or visualise using related vocabulary Create 2D shape patterns	Rapid recall - 1.5 Know number bonds 9
5	Understanding Shape 3D Shape	Name and describe common 3d shapes. Sphere, cone, cuboid, pyramid, cylinder and a cube Describe properties of 3D shapes that you can see or visualise using related vocabulary Create 3D shape patterns	Rapid recall - 1.5 Know number bonds 9
6	Subtraction	Subtract a one digit number from a one / two digit number Subtract a multiple of 10 from a 2 digit number Record using - and = Use different formats such as $7 = 16-9$	Rapid recall - 1.5 Know number bonds 9
7	Division	Finding half of a given number - up to 20 Find equal groups by sharing	Rapid recall - 1.5 Know number bonds 9

Year 1		Maths objectives	2024/2025
Week	Spring 2 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Money	Coin recognition 1p, 2p, 5p, 10p, 20p, 50p, £1, £2 Addition and subtraction using coins Introduce the difference between two amounts Paying and giving change	Rapid recall - 1.6 Know all addition and subtraction facts to 10.
2	Fractions	Find a half of a shape Find a half of an amount Find a quarter of a shape Find a quarter of an amount	Rapid recall - 1.6 Know all addition and subtraction facts to 10.
3	Place value to 50	Numbers to 50 Tens and ones Represent numbers to 50 One more one less Compare objects within 50 Compare numbers within 50 Order numbers within 50	Rapid recall - 1.6 Know all addition and subtraction facts to 10.
4	Multiplication/ place value	Count in 10s Count in 5s Count in 2s Group objects equally	Rapid recall - 1.6 Know all addition and subtraction facts to 10.
5	Application of skills		Rapid recall - 1.6 Know all addition and subtraction facts to 10.
6	Volume	Introduce capacity and volume Measure capacity Compare capacity	Rapid recall - 1.6 Know all addition and subtraction facts to 10.

Year 1		Maths objectives	2024/2025
Week	Summer 1 5 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Problem Solving Using addition and subtraction	Use a range of strategies to solve problems Include addition, subtraction, difference and related vocabulary	Rapid recall - 1.7 Doubles of all numbers to 10 and halves of even numbers
2	Measures Height	Measure and compare heights of objects.	Rapid recall - 1.7 Doubles of all numbers to 10 and halves of even numbers
3	Measures problem solving using weight, length, capacity	Solve problems comparing weight, length and capacity.	Rapid recall - 1.7 Doubles of all numbers to 10 and halves of even numbers
4	Place value to 100	Counting to 100 Partitioning numbers Comparing numbers $< > =$ Comparing numbers $< > =$ Ordering numbers One more, one less	Rapid recall - 1.7 Doubles of all numbers to 10 and halves of even numbers
5	Measures Time	Before/after Dates Tell the time to the hour/half past Write times and compare times.	Rapid recall - 1.7 Doubles of all numbers to 10 and halves of even numbers

Year 1		Maths objectives	2024/2025
Week	Summer 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Place value to 100	Counting to 100 Partitioning numbers Comparing numbers $<$ $>$ $=$ Comparing numbers $<$ $>$ $=$ Ordering numbers One more, one less	Rapid recall - 1.8 Bonds of multiples of 10 up to 100
2	Multiplication/ Place value to 100	Count backwards in 10s Count backwards in 5s Count backwards in 2s Two more and two less	Rapid recall - 1.8 Bonds of multiples of 10 up to 100
3	Money	Money week/ secure any gaps	Rapid recall - 1.8 Bonds of multiples of 10 up to 100
4	Position and direction	Describe turns including, whole, half, quarter and three-quarter turn. Use left, right, forwards and backwards to describe directions.	Rapid recall - 1.8 Bonds of multiples of 10 up to 100
5	AOS/ Preparation for year 2	<i>Adapt where needed</i> Number bonds to 20 10x table 5x table 2x table Fractions Time	Rapid recall - 1.8 Bonds of multiples of 10 up to 100
6 and 7	Transition	Number formation Number bonds to 10 and 20 Doubles to 20 Halving to 20 Times tables 10s, 5s, 2s. One more and one less	Rapid recall - Autumn 1 Rapid recall - 1.1 Know number bonds 10

Year 2		Maths objectives	2024/2025
Week	Autumn 1 8 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Place value / partitioning numbers	Recall what each digit in a 2 digit number represents including multiples of 10 Partition 2 digit numbers in different ways Record appropriately	Rapid recall - 2.1 Bonds to 20 0 + 20 20 + 0 1 + 19 19 + 1
2	Addition	Add 1s. 10 more, 10 less. Add 10s.	Rapid recall - 2.1 Bonds to 20 2 + 18 18 + 2 3 + 17 17 + 3 16 + 4 4 + 16 15 + 5 5 + 15
3	Subtraction	Subtract a one digit number from a multiple of ten Subtract a one digit number from a two digit number Mentally carry out subtraction Record using - and = Use inverse to find missing numbers, including solving problems Record in different ways e.g. 20 = 22-2	Rapid recall - 2.1 Bonds to 20 6 + 14 14 + 6 7 + 13 13 + 7 8 + 12 12 + 2 9 + 11 11 + 9 10 + 10 Recap all - TEST
4	Multiplication	Recognise equal groups. Make equal groups. Multiplication using the x symbol. Multiplication sentences. Use arrays 2 times table.	Rapid recall - 2.2 Addition and Subtraction facts for each number to 20
5	Money	Count money Pence/pound/notes/coins Select money Make the same amount Compare money Find totals	Rapid recall - 2.2 Addition and Subtraction facts for each number to 20

6	Number bonds	Find number bonds to 20 Record appropriately Work out the corresponding subtraction facts	Rapid recall - 2.2 Addition and Subtraction facts for each number to 20
7	Measures Length	comparisons between objects Measure objects using appropriate equipment (cm and m) Draw and measure lines to the nearest cm Read scales using intervals Use vocabulary related to length / height including e.g. twice as high, $\frac{1}{2}$ as wide	Rapid recall - 2.2 Addition and Subtraction facts for each number to 20

Year 2		Maths objectives	2024/2025
Week	Autumn 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Handling data Pictograms	Record information in lists / tables Present the information using pictures / pictograms (where the picture represents 2, 5 and 10) Interpret information from a given pictogram	Rapid recall - 2.3 Doubles of all numbers to 20 and halves of even numbers
2	More / Less than using signs < and >	Order 2 digit numbers and position them on a number line (estimate position of numbers) Use the < and > and = signs to compare numbers up to 100 (used in different contexts including measures) Count in fractions on a numberline up to 10 (using $\frac{1}{4}$, and then both $\frac{1}{2}$ and $\frac{2}{4}$ so that children become familiar with their equivalence.	Rapid recall - 2.3 Doubles of all numbers to 20 and halves of even numbers
3	Addition	Add a one digit number to a multiple of ten Add a multiple of ten to a one digit number Mentally carry out addition Record using + and = Record in different ways e.g. $17 = 10 + 7$ Use inverse to find missing numbers Add 3 1 digit numbers (add in any order) Add two 2-digit numbers.	Rapid recall - 2.3 Doubles of all numbers to 20 and halves of even numbers
4	Money Subtraction	Subtraction using coins including pounds and pence Totalling amounts, pay and give change Use correct notation to record money Problem solving	Rapid recall - 2.3 Doubles of all numbers to 20 and halves of even numbers

		Find the sum and difference, count up / count back method	
5	Measures Weight	Make comparisons between objects Weigh objects using appropriate equipment Weigh using 'grams' and 'kilograms' Read scales using intervals Use vocabulary related to weight	Rapid recall - 2.3 Doubles of all numbers to 20 and halves of even numbers
6	Application of skills week		Rapid recall - 2.3 Doubles of all numbers to 20 and halves of even numbers
7	Understanding Shape Symmetry	Identity reflective symmetry in 2D shapes and patterns	Rapid recall - 2.3 Doubles of all numbers to 20 and halves of even numbers

Year 2		Maths objectives	2024/2025
Week	Spring 1 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Time	Use vocabulary related to time - seconds, minutes, hours Compare and sequence intervals of time Tell the time using o'clock, half past, quarter past, quarter to Know relationships between hours/days, minutes/hours. Find intervals between given times	Rapid recall - 2.4 Multiplication facts for 10
2	Money Multiplication	Multiplication using coins including pounds and pence Totalling amounts, pay and give change Use correct notation to record money Problem solving	Rapid recall - 2.4 Multiplication facts for 10
3	Measures Time	Use vocabulary related to time - seconds, minutes, hours Compare and sequence intervals of time Tell the time using o'clock, half past, quarter past, quarter to Know relationships between hours/days, minutes/hours. Find intervals between given times	Rapid recall - 2.5 Division facts for 10
4	Understanding Shape 2D/3D Shape	Name, describe 2D and 3D shapes including various triangles, rectangles, squares, circles, pentagons, hexagons, cubes, cuboids, cylinders, spheres, pyramids, quadrilateral, polygon and prisms. Describe properties of 2D or 3D shapes that you can see or visualise using related vocabulary Create 2D and 3D shapes and label them using shape names	Rapid recall - 2.5 Division facts for 10
5	Position and direction	Describe position Describe movement Describe turns Describe movement and turns Making patterns with shapes	Rapid recall - 2.5 Division facts for 10
6	Division	Use practical activities to share objects into equal groups Use division sign and = Use vocabulary related to division	Rapid recall - 2.5 Division facts for 10
7	Position and direction	Describe position Describe movement Describe turns Describe movement and turns Making patterns with shapes	Rapid recall - 2.5 Division facts for 10

Year 2		Maths objectives	2024/2025
Week	Spring 2 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Money Division with remainders	Division using coins including remainders Calculating the cost of individual items Use correct notation to record money Problem solving	Rapid recall - 2.6 Multiplication facts for 5
2	Handling data Venn Diagrams and block graphs	Sort and group objects using Venn diagrams and record data in lists or tables Create block graphs using ICT Interpret information from given Venn diagrams / block graphs	Rapid recall - 2.6 Multiplication facts for 5
3	Multiples & Fractions	Count on / back in 1's, 2's, 3's, 5's and 10's up to 100 Find pairs of multiples of 10 which total 100 Revise finding a half and a quarter of a given shape, amount or set of objects Find three quarters of a given shape, amount or set of objects	Rapid recall - 2.6 Multiplication facts for 5
4	Measures Capacity	Make comparisons between containers Measure capacity using appropriate equipment (litres and millilitres) Read scales using intervals - reading to the nearest unit Use vocabulary related to capacity	Rapid recall - 2.7 Division facts for 5
5	Application of skills week		Rapid recall - 2.7 Division facts for 5
6	Estimation / rounding	Estimate a number of objects Round two digit numbers to the nearest 10	Rapid recall - 2.7 Division facts for 5

Year 2		Maths objectives	2024/2025
Week	Summer 1 5 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Problem Solving Four operations	Use a range of strategies to solve problems Include addition, subtraction, multiplication, division, inverse and related vocabulary	Rapid recall - 2.8 Multiplication facts for 2
2	Measures Problem Solving using Weight, Length, Capacity	Use a range of strategies to solve problems Include addition, subtraction, multiplication and division and related vocabulary in the context of weight, length or capacity Allow children to make choices with regards to appropriate equipment	Rapid recall - 2.8 Multiplication facts for 2
3	Measures Time (including digital time)	Use vocabulary related to time - seconds, minutes, hours Tell the time using o'clock, half past, quarter past, quarter to, Write the time to 5 and 10 minutes (draw hands on clock faces to show these times) Find intervals between given times across the hour	Rapid recall - 2.8 Multiplication facts for 2
4	Application of skills week		Rapid recall - 2.9 Division facts for 2
5	Fractions	Revise finding a half and a quarter of a given shape, amount or set of objects - use counting in 3's to support finding a third of shapes, lengths, amounts and sets of objects Find three quarters of a given shape, amount or set of objects Represent $\frac{1}{2}$ as $\frac{2}{4}$ Write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 Solve fraction problems	Rapid recall - 2.9 Division facts for 2

Year 2		Maths objectives	2024/2025
Week	Summer 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Money Four operations	Money using the four operations Totalling amounts Calculating the cost of individual items Paying and giving change	Rapid recall - 2.10 Mixed multiplication and division facts for 2, 5 and 10
2	Problem Solving Four operations	Use a range of strategies to solve problems Include addition, subtraction, multiplication, division, inverse and related vocabulary Check answers to given problems	Rapid recall - 2.10 Mixed multiplication and division facts for 2, 5 and 10
3	Understanding Shape Angles	Follow and give instructions involving position, direction and movement Recognise and use whole, half and quarter turns, both clockwise and anti-clockwise Investigate right angles and know that a right angle represents a quarter turn Link with ICT if possible to use programmable robots.	Rapid recall - 2.10 Mixed multiplication and division facts for 2, 5 and 10
4	Handling data Problem solving	Solve a range of problems involving: Pictograms, Venn diagrams, block graphs, lists, tables and diagrams	Rapid recall - 2.10 Mixed multiplication and division facts for 2, 5 and 10
5	AOS/ Preparation for year 3	<i>Adapt where needed</i> Number bonds Times tables Fractions Time Secure any gaps	Rapid recall - 2.10 Mixed multiplication and division facts for 2, 5 and 10
6 and 7	Transition		Rapid recall Autumn 1 Rapid recall - 2.1 Bonds to 20

Year 3		Maths objectives	2024/2025
Week	Autumn 1 8 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Partitioning numbers < and >	Partition 3 digit numbers (Use vocabulary: hundreds, tens and units) Use < and > to compare numbers	Rapid recall - 3.1 Number bonds that total 100
2	Addition	Use written methods to record addition of two and three digit numbers	Rapid recall - 3.1 Number bonds that total 100
3	Measures Weight	Investigate the relationship between kilograms and grams Estimate, use scales to weigh and record Read to the nearest division and half division scales that are numbered or partially numbered Compare/add/subtract measures	Rapid recall - 3.1 Number bonds that total 100
4	Measures Length	Investigate the relationship between kilometres and metres, metres and centimetres Estimate, use rulers to measure and record Use given information to draw accurate lines Compare/add/subtract measures	Rapid recall - 3.1 Number bonds that total 100
5	Subtraction	Use written methods to record subtraction of two and three digit numbers	Rapid recall - 3.1 Number bonds that total 100
6	Measures Time / analogue /digital	Read the time on a 12 hour analogue / digital clock to the nearest minute Use am/pm morning, afternoon, noon and midnight Record and compare time in terms of seconds, minutes and hours Find intervals between given times Look at different clock faces including those with Roman numerals	Rapid recall - 3.1 Number bonds that total 100
7	Measures Time / analogue /digital	Read the time on a 12 hour analogue / digital clock to the nearest minute Use am/pm morning, afternoon, noon and midnight Record and compare time in terms of seconds, minutes and hours Find intervals between given times Look at different clock faces including those with Roman numerals	Rapid recall - 3.1 Number bonds that total 100
			Rapid recall - 3.2 Double any 2-digit number

Year 3		Maths objectives	2024/2025
Week	Autumn 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Multiplication	Consolidate 2, 4 and 8 times tables Comparing statements Related calculations Multiply 2 digits by 1 digit	Rapid recall - 3.2 Double any 2-digit number
2	Division	Divide a two digit number by a one digit number Practically divide a two digit number by a one digit number to demonstrate remainders	Rapid recall - 3.2 Double any 2-digit number
3	Understanding Shape Symmetry, 2D/3D shape	Visualise 3D shapes from 2D drawings Describe 2D and 3D shapes Identify 3d shapes in different orientations and describe them Make and draw 2D and 3D shapes; recognise their geometrical features and properties including faces and symmetry, and use these to classify shapes Draw and complete shapes with reflective symmetry Draw the reflection of a shape in a mirror line	Rapid recall - 3.2 Double any 2-digit number
4	Handling data Pictograms / Bar charts	Use tally charts, frequency tables, pictograms (where the picture represents more than one) and bar charts to represent results Create bar charts using ICT Interpret information from given pictograms - bar charts, solving one step and two step problems	Rapid recall - 3.3 Halve any even 2-digit number
5	Money Four Operations	Money using the four operations Totalling amounts Calculating the cost of individual items Paying and giving change	Rapid recall - 3.3 Halve any even 2-digit number
6	Application of skills week		Rapid recall - 3.3 Halve any even 2-digit number
7	Number bonds	Recall all addition and subtraction facts for each number to 20 Find sums of multiples of 10 up to 100 Find the difference between multiples of 10 up to 100 Find number pairs that total 100	Rapid recall - 3.3 Halve any even 2-digit number

Year 3		Maths objectives	2024/2025
Week	Spring 1 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Doubles / Halves	Identify halving as the inverse of doubling Find doubles to 100 and corresponding halves Relate to multiply and divide by 2 and 4 Use to estimate calculations	Rapid recall - 3.4 Multiplication facts for 4
2	Money One step problem solving	Money using the four operations Totalling amounts Calculating the cost of individual items Paying and giving change Solving written one step problems using £ and p notation (e.g. £3.00, 27p, £3.45)	Rapid recall - 3.4 Multiplication facts for 4
3	Measures Time / Analogue	Read the time to the nearest 5 minutes Calculate time intervals Find the start or end times for a given time interval Read the time using the 24 hour clock Use a roman numeral analogue clock face	Rapid recall - 3.4 Multiplication facts for 4
4	Measures Time / Analogue	Read the time to the nearest 5 minutes Calculate time intervals Find the start or end times for a given time interval Read the time using the 24 hour clock Use a roman numeral analogue clock face	Rapid recall - 3.5 Division facts for 4
5	Length and perimeter	Measure length Equivalent lengths cm and m Compare lengths Add/subtract lengths Measure perimeter Calculate perimeter	Rapid recall - 3.5 Division facts for 4
6	Fractions	Read and write proper fractions Know denominator as the parts of a whole Know numerator as the number of parts Identify and estimate fractions of shapes Use diagrams to compare fractions and find equivalents with small denominators	Rapid recall - 3.5 Division facts for 4

Year 3		Maths objectives	2024/2025
Week	Spring 2 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Measures Capacity	Investigate the relationship between litres and millilitres Estimate, measure and record quantities Read to the nearest division and half division scales that are numbered or partially numbered Add, subtract and compare measures	Rapid recall - 3.6 Multiplication facts for 8
2	Money One step problem solving	Money using the four operations Totalling amounts Calculating the cost of individual items Paying and giving change Solving written one step problems using £ and p notation (e.g. £3.00, 27p, £3.45)	Rapid recall - 3.6 Multiplication facts for 8
3	Addition	Use written methods to record addition of two and three digit numbers Use inverse operation to check answers	Rapid recall - 3.6 Multiplication facts for 8
4	Handling data Venn Diagrams and Carroll Diagrams	Interpret information from given Venn diagrams / Carroll diagrams Use Venn diagrams and Carroll diagrams to sort data and objects using more than one criterion	Rapid recall - 3.7 Division facts for 8
5	Application of skills week		Rapid recall - 3.7 Division facts for 8
6	Money Two step problem solving	Solving written two step problems using £ and p notation (e.g. £3.00, 27p, £3.45) Allow children to choose appropriate calculations	Rapid recall - 3.7 Division facts for 8

Year 3		Maths objectives	2024/2025
Week	Summer 1 5 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Problem Solving Using numbers, images and diagrams	Solve 'finding all possibilities' problems using a systematic approach, Use numbers, images and diagrams to describe and explain methods Solve finding the missing number problems	Rapid recall - 3.8 Multiplication facts for 3
2	Subtraction	Use written methods to record subtraction of two and three digit numbers Use inverse to check answers	Rapid recall - 3.8 Multiplication facts for 3
3	Fractions	Find fractions of quantities including: half, third, quarter, sixth, tenths and three quarters	Rapid recall - 3.8 Multiplication facts for 3
4	Application of skills week		Rapid recall - 3.9 Division facts for 3
5	Fractions	Read and write proper fractions Know denominator as the parts of a whole Know numerator as the number of parts Identify and estimate fractions of shapes Use diagrams to compare fractions and find equivalents Add and subtract fractions with the same denominator Know how to count up and down in tenths, dividing an object into ten equal parts and divide one digit numbers or quantities by 10	Rapid recall - 3.9 Division facts for 3

Year 3		Maths objectives	2024/2025
Week	Summer 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Money Two step problem solving	Solving written two step problems using £ and p notation (e.g. £3.00, 27p, £3.45) including the use of fractions Allow children to choose appropriate calculations	Rapid recall - 3.9 Division facts for 3
2	Problem Solving Using numbers, images and diagrams	Solve 'logic' problems using a systematic approach Use numbers, images and diagrams to describe and explain methods Include positive integer scaling problems and correspondence problems in which n objects are connected to m objects	Rapid recall - 3.10 Mixed multiplication and division facts for 3, 4 and 8
3	Understanding Shape Angles Perimeter	language for position and direction Draw right angles Identify right angles in 2D shapes Compare angles with right angles Know that a straight line is equivalent to two right angles Know the language 'perpendicular', 'parallel', 'horizontal' and 'vertical' Find the perimeter of regular shapes	Rapid recall - 3.10 Mixed multiplication and division facts for 3, 4 and 8
4	Understanding Shape Compass directions	language for position and direction Use all four compass directions to describe movement about a grid Practically apply compass directions	Rapid recall - 3.10 Mixed multiplication and division facts for 3, 4 and 8
5	AOS/ Preparation for year 4	<i>Adapt where needed</i> Number bonds Times tables Secure any gaps	Rapid recall - 3.10 Mixed multiplication and division facts for 3, 4 and 8
6 and 7	Transition		Rapid recall - Autumn 1 Rapid recall - 3.1 Number bonds that total 100

Year 4		Maths objectives	2024/2025
Week	Autumn 1 8 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Number Patterns / place value	Investigate a statement involving numbers and test it with examples Read, write and order positive and negative numbers Count backwards through zero to include negative numbers Place numbers on a given numberline beyond 1000 and including negative numbers Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value	Rapid recall - 4.1 Multiplication facts for 6
2	Addition	Use written methods to record addition of two three and four digit numbers including word problems Use inverse operations to check answers Add mentally pairs of two digit numbers	Rapid recall - 4.1 Multiplication facts for 6
3	Measures Weight/length	Investigate the relationship between kilograms and grams Estimate, use scales to weigh and record using kg and g Read to the nearest tenth of a division and record appropriately e.g. 3.7 kg Investigate the relationship between kilometres and metres, metres and centimetres Estimate, use rulers to measure and record using km, m, cm, mm Use given information to draw accurate lines to the nearest tenth e.g. 3.7 cm	Rapid recall - 4.1 Multiplication facts for 6
4	Measures Length	Investigate the relationship between kilometres and metres, metres and centimetres Estimate, use rulers to measure and record using km, m, cm, mm Use given information to draw accurate lines to the nearest tenth e.g. 3.7 cm	Rapid recall - 4.1 Multiplication facts for 6
5	Subtraction	Use written methods to record subtraction of two, three and four digit numbers, including word problems Use inverse operations to check answers Subtract mentally pairs of two digit numbers	Rapid recall - 4.2 Division facts for 6
6	Multiplication	Multiply numbers up to 1000 by 10 and 100 and understand the effect Use written methods to multiply a two digit number by a one digit number,	Rapid recall - 4.2 Division facts for 6
7	Division	Divide numbers up to 1000 by 10 and 100 and understand the effect	Rapid recall - 4.2 Division facts for 6

		Use written methods to divide a two digit number by a one digit number including remainders Round remainders up or down to the nearest whole	
8			Rapid recall - 4.2 Division facts for 6

Year 4		Maths objectives	2024/2025
Week	Autumn 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Money Four operations	Money using the four operations Choosing the appropriate calculation Use decimal notation Round to the nearest £	Rapid recall - 4.3 Multiplication facts for 9
2	Fractions	Find pairs of fractions that total 1 Investigate equivalent fractions e.g. $\frac{6}{8}$, $\frac{3}{4}$ Order fractions on a numberline including mixed number fractions e.g. $3\frac{1}{2}$ Find fractions of amounts or shapes including fractions where the numerator is greater than one. Add and subtract fractions with the same denominator	Rapid recall - 4.3 Multiplication facts for 9
3	Understanding Shape Symmetry 2D / 3D Shape	Draw polygons and classify them, including their line symmetry Identify the different types of triangles Identify regular / irregular shapes Identify parallel, perpendicular, horizontal and vertical lines Visualise 3D shapes from 2D drawings Make and identify nets of common solids	Rapid recall - 4.3 Multiplication facts for 9
4	Handling data Pictograms and Bar charts	Choose the most appropriate method to record data - including: tally charts, frequency tables, pictograms (where the picture represents more than one) and bar charts Use ICT where appropriate Investigate the effect of changing scales on the Y Axis Examine graphs showing events over time - solve problems	Rapid recall - 4.4 Division facts for 9
5	Positive and Negative numbers	Position positive and negative numbers on a given numberline Use positive and negative numbers in context e.g. temperature Compare positive and negative numbers using < and > Use numbers beyond 1000 Compare decimals up to 2 decimal places	Rapid recall - 4.4 Division facts for 9
6	Application of skills week		Rapid recall - 4.4 Division facts for 9
7	Number bonds	Investigate number bonds of 100 Use knowledge of rounding, number bonds of 10 and inverse to estimate and check answers	Rapid recall - 4.4 Division facts for 9

Year 4		Maths objectives	2024/2025
Week	Spring 1 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Multiplication	Multiply by 10 and 100 and understand the effect Multiply by 1 and 0 Multiply by 3, 6 and 9	Rapid recall - 4.5 Multiplication facts for 7
2	Money One step problem solving	Money using the four operations Choosing the appropriate calculation Solving written one step problems using decimal notation	Rapid recall - 4.5 Multiplication facts for 7
3	Measures Capacity	Investigate the relationship between litres and millilitres Estimate, measure and record quantities using l and ml Read to the nearest tenth of a division and record appropriately e.g. 3.7 l	Rapid recall - 4.5 Multiplication facts for 7
4	Measures Time Problem solving	Read time to the nearest minute Use am, pm and 24 hour clock notation Calculate time intervals from clocks, calendars and timetables Find equivalent times	Rapid recall - 4.6 Division facts for 7
5	Decimals	Recognise tenths and hundredths Tenths as decimals Tenths on a place value grid Tenths on a numberline Divide 1 digit by 10 Divide 2 digits by 10 Hundredths Hundredths as decimals Hundredths on a place value grid Divide 1 or 2 by 100	Rapid recall - 4.6 Division facts for 7
6	Fractions	Find pairs of fractions that total 1 Investigate equivalent fractions e.g. $\frac{6}{8}$, $\frac{3}{4}$ Order fractions on a numberline including mixed number fractions e.g. $3\frac{1}{2}$ Find fractions of amounts or shapes including fractions where the numerator is greater than one. Add and subtract fractions with the same denominator	Rapid recall - 4.6 Division facts for 7
7	Understanding shape Perimeter	Measure perimeter Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear lines	Rapid recall - 4.6 Division facts for 7

Year 4		Maths objectives	2024/2025
Week	Spring 2 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Division	Divide numbers up to 1000 by 10 and 100 and understand the effect Use written methods to divide a two digit number by a one digit number including remainders Round remainders up or down to the nearest whole	Rapid recall - 4.7 Mixed multiplication and division facts for 9, 6 and 7.
2	Ratio and proportion	Use the vocabulary of ratio to describe the relationship between two quantities e.g. there are 2 red beads to every 3 green beads Use the vocabulary of proportion to describe the relationship between two quantities e.g. 2 beads in every 5 beads are red. Estimate the proportion e.g. a quarter of a box of apples is red - or 1 in every 4 Include scaling and correspondence problems	Rapid recall - 4.7 Mixed multiplication and division facts for 9, 6 and 7.
3	Addition / Subtraction	Use written methods to record addition and subtraction of two and three digit numbers Use knowledge of rounding, number bonds of 10 and inverse to estimate and check answers	Rapid recall - 4.7 Mixed multiplication and division facts for 9, 6 and 7.
4	Handling data Venn Diagrams and Carroll Diagrams	Use Venn diagrams and Carroll diagrams to sort data and objects using more than one criterion Interpret information from given Venn diagrams / Carroll diagrams	Rapid recall - 4.8 Multiplication facts for 11
5	Application of skills week		Rapid recall - 4.8 Multiplication facts for 11
6	Money Two step problem solving	Money using the four operations Choosing the appropriate calculation Solving written two step problems using decimal notation and using brackets	Rapid recall - 4.8 Multiplication facts for 11

Year 4		Maths objectives	2024/2025
Week	Summer 1 5 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Problem Solving Using numbers, images and diagrams	Solve 'finding all possibilities' problems using a systematic approach, Use numbers, images and diagrams to describe and explain methods	Rapid recall - 4.9 Division facts for 11
2	Decimals	Introduce decimal notation using 'tenths and hundredths' Relate the notation to money Order one and two place decimals Position one and two place decimals on a numberline (ensure children place a 0 in the hundredths column as a place holder where necessary) Round decimals to whole numbers	Rapid recall - 4.9 Division facts for 11
3	Fractions	Recognise the equivalence between decimals and fractions including $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, $1/10$ and $1/100$ Use the decimal column headings 'tenth and hundredth' to find fraction equivalents and vice versa	Rapid recall - 4.9 Division facts for 11
4	Application of skills week		Rapid recall - 4.10 Multiplication facts for 12
5	Mental Multiplication Strategies	Multiply numbers up to 1000 by 10 and 100 and understand the effect Recall all times tables to 12 x 12 and corresponding division problems Multiply 3 numbers together e.g. $6 \times 6 \times 7$	Rapid recall - 4.10 Multiplication facts for 12

Year 4		Maths objectives	2024/2025
Week	Summer 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Understanding Shape Compass direction / Co-ordinates	Recognise vertical and horizontal lines Use the eight compass points to describe direction Plot specified points to create a polygon on a co-ordinates grid Describe and identify the position of a square on a grid of squares using co-ordinates Translate shapes on co-ordinate grids	Rapid recall - 4.11 Division facts for 12
2	Problem Solving Using numbers, images and diagrams	Solve 'logic' problems using a systematic approach Use numbers, images and diagrams to describe and explain methods	Rapid recall - 4.11 Division facts for 12
3	Understanding Shape Angles	Know that angles are measured in degrees and that one whole turn is 360 degrees Draw, compare and order angles less than 180 degrees Identify angles which are obtuse and acute	Rapid recall - 4.12 Recall all multiplication facts up to 12x12
4	Understanding Shape Area	What is area? Counting squares Making shapes Comparing area	Rapid recall - 4.12 Recall all multiplication facts up to 12x12
5	AOS/ Preparation for year 5	<i>Adapt where needed</i> Number bonds Times tables Secure any gaps	Rapid recall - 4.12 Recall all multiplication facts up to 12x12
6 and 7	Transition		Rapid recall - Autumn 1 Rapid recall - 4.1 Multiplication facts for 6 4.2 Division facts for 6

Year 5		Maths objectives	2024/2025
Week	Autumn 1 8 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Place Value	Read, write and order numbers with up to 3 decimal places Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals	Rapid recall - Recap year 4 4.1 Multiplication facts for 6
2	Addition Rounding and estimating Four operations	Use written methods to record addition of numbers including decimals, include a mix of whole numbers and decimals Include decimal complements of 1 e.g. $0.83 + 0.17 = 1$ Use rounding and estimation to check answers Use knowledge of number facts, place value and inverse operations to check answers Choose, use and combine the appropriate calculations Use decimal notation Pencil and Paper methods	4.1 Multiplication facts for 6
3	Measures Conversions	Investigate the relationship between measures (weight, length and capacity) Read and record standard units of measure Understand and use approximate equivalence between metric units and common imperial units such as inches, pounds and pints Convert larger to smaller units using decimals of one place	4.1 Multiplication facts for 6
4	Percentages	Know that percentage is the number of parts in a hundred Express tenths and hundredths as percentages Investigate the link between decimals, fractions and percentages	4.1 Multiplication facts for 6
5	Partitioning numbers < and >	Investigate positive and negative numbers Partition, round and order numbers Use <, > and = to compare numbers	4.2 Division facts for 6
6	Equivalent fractions	Find equivalent fractions Relate fractions to their decimal representations Investigate the link between decimals, fractions and percentages	4.2 Division facts for 6
7	Practical skills : measuring lines and angles, symmetry	Use rulers to measure and draw lines to the nearest mm Draw and measure angles using a protractor Use various strategies to identify lines of symmetry including the use of tracing paper	4.2 Division facts for 6
8			4.2 Division facts for 6

Year 5		Maths objectives	2024/2025
Week	Autumn 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Subtraction Rounding and estimating	Use written methods to record subtraction of numbers including decimals Use rounding and estimation to check answers Use knowledge of number facts, place value and inverse operations to check answers	Rapid recall - Recap year 4 4.3 Multiplication facts for 9
2	Four operations	Choose, use and combine the appropriate calculations Use decimal notation including money	Rapid recall - 4.3 Multiplication facts for 9
3	Understanding Shape 2D / 3D Shape Visualisation / nets	Identify, visualise and describe properties of rectangles, triangles, regular polygons and 3D shapes Identify and draw nets of 3D shapes Recognise perpendicular and parallel lines	Rapid recall - 4.3 Multiplication facts for 9
4	Handling data Frequency tables, Pictograms, Bar and line graphs	Choose the most appropriate method to record data - including: tally charts, frequency tables, pictograms (where the picture represents more than one) bar charts and line graphs Interrogate data Use ICT where appropriate Investigate the effect of changing scales on the Y Axis	Rapid recall - 4.4 Division facts for 9
5	Positive and Negative numbers	Use positive and negative numbers in context e.g. temperature Compare positive and negative numbers using < and > Investigate negative numbers and draw conclusions	Rapid recall - 4.4 Division facts for 9
6	Application of skills week		Rapid recall - 4.4 Division facts for 9
7	Mental calculation strategies	Develop a range of mental calculation strategies Such as: Rounding 9, 19, 11, 21 and adjusting the answer Multiply by 2 digit number through partitioning Using knowledge of doubles, halves and quarters	Rapid recall - 4.4 Division facts for 9

Year 5		Maths objectives	2024/2025
Week	Spring 1 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Multiplication	Multiples and factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 100, 1000	Rapid recall - recap year 5 Rapid recall - 4.5 Multiplication facts for 7
2	One step problem solving	Money using the four operations Choosing the appropriate calculation Solving written one step problems using decimals up to three decimal places, percentages and fractions Pencil and paper methods Use and explain the equals sign to indicate equivalence including in missing number problems	Rapid recall - 4.5 Multiplication facts for 7
3	Measures Time 24 hour clock Calendars Timetables	Read time to the nearest minute using analogue and digital representations Find differences between given times Use am, pm and 24 hour clock notation Calculate time intervals from clocks, calendars and timetables	Rapid recall - 4.5 Multiplication facts for 7
4	Fractions	What is a fraction? Equivalent fractions Fractions greater than 1 Improper fractions to mixed numbers # Mixed numbers to improper fractions Number sequences Compare and order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions Add fractions within 1 Add 3 or more fractions Add fractions	Rapid recall - 4.6 Division facts for 7
5	Fractions	Add mixed numbers Subtract fractions Subtract mixed numbers Subtract - breaking the whole Subtract 2 mixed numbers	Rapid recall - 4.6 Division facts for 7
6	Fractions	Multiply unit fractions by an integer Multiply non-unit fractions by an integer Multiply mixed numbers by integers Calculate fractions of a quantity Fraction of an amount Using fractions as operators	Rapid recall - 4.6 Division facts for 7
7	Decimals, percentages and fractions	Find fractions of quantities Find percentages of quantities Record using decimal notation Look at scaling by simple fractions including fractions >1	Rapid recall - 4.6 Division facts for 7

Year 5		Maths objectives		2024/2025
Week	Spring 2 6 weeks	Lesson focus		Automaticity - Rapid Recall Lining up opportunities
1	Division Rounding and estimating	Divide numbers including decimals by 10, 100 and 1000 and understand the effect Use written methods to divide three digit, two digit and decimal numbers (Use a division box) Use rounding and estimation to check answers Use knowledge of number facts, place value and inverse operations to check answers		Rapid recall - recap year 4. Rapid recall - 4.7 Mixed multiplication and division facts for 9, 6 and 7.
2	One step / two step problem solving	Money using the four operations Choosing the appropriate calculation Solving written one step problems using decimal notation Solve problems using knowledge of factors, multiples, squares and cubes.		Rapid recall - 4.7 Mixed multiplication and division facts for 9, 6 and 7.
3	Problem Solving	Reasoning: Prove whether given statements are true or false (e.g. Ben says 2 digit numbers + 2 digit numbers always total to give an answer which is a 3 digit number - is he correct? True or False) Generate statements to be tested as above. Use numbers, images and diagrams to describe and explain methods		Rapid recall - 4.7 Mixed multiplication and division facts for 9, 6 and 7.
4	Handling data Venn Diagrams, Carroll Diagrams, line graphs	Choose the most appropriate method to record data - including: Venn diagrams, Carroll diagrams and line graphs Interrogate data Use ICT where appropriate		Rapid recall - 4.8 Multiplication facts for 11
5	Application of skills week			Rapid recall - 4.8 Multiplication facts for 11
6	Ratio and proportion Two step problem solving	Use the language of chance or likelihood Solve problems involving ratio and proportion Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates Money using the four operations Choosing the appropriate calculation Solving written two step problems using decimal notation Pencil and Paper methods		Rapid recall - 4.8 Multiplication facts for 11

Year 5		Maths objectives	2024/2025
Week	Summer 1 5 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Problem Solving	Solve 'finding all possibilities' problems using a systematic approach, Use numbers, images and diagrams to describe and explain methods	Rapid recall - recap year 4 Rapid recall - 4.9 Division facts for 11
2	Scales	Interpret a reading that lies between two un-numbered divisions on a scale Apply to weight, length, capacity, temperature, numberlines etc.	Rapid recall - 4.9 Division facts for 11
3	Decimals Multiplication / division	Multiply and divide numbers including decimals by 10, 100 and 1000 and understand the effect Use written methods to multiply and divide three digit, two digit and decimal numbers Identify multiples and factors, including all factor pairs of a number and common factors of two numbers Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19.	Rapid recall - 4.9 Division facts for 11
4	Application of skills week		Rapid recall - 4.10 Multiplication facts for 12
5	Decimals, percentages and fractions	Find fractions of quantities Find percentages of quantities Record using decimal notation	Rapid recall - 4.10 Multiplication facts for 12

Year 5		Maths objectives	2023/2024
Week	Summer 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Two step problem solving	Money using the four operations Choosing the appropriate calculation Solving written two step problems using decimal notation	Rapid recall - 4.10 Multiplication facts for 12
2	Understanding Shape Angles	Estimate, draw and measure acute, obtuse, reflex and right angles using a protractor Calculate missing angles on a straight line and $\frac{1}{2}$ turn (total 180 degrees) e.g. if angle A = 70° then angle B = ? Calculate angles at a point and one whole turn (total 360 degrees) and other multiples of 90 degrees Distinguish between regular and irregular polygons based on reasoning about equal sides and angles Use conventional markings for parallel lines and right angles Use the term diagonal and reason about the angles formed between sides, diagonals and parallel sides	Rapid recall - 4.10 Multiplication facts for 12
3	Understanding Shape Perimeter / area	Measure and calculate the perimeter of regular and irregular polygons Use formula to calculate area of rectangles and squares Know that $a(b + c) = ab + ac$ (relate to finding formula) Use properties of rectangles to deduce related facts about missing lengths and angles Recognise and use square numbers and cube numbers, and the notation for square and cubed. Estimate volume e.g. using 1cm cubed blocks to build cuboids and capacity e.g. using water	Rapid recall - 4.12 Recall all multiplication facts up to 12x12
4	Co-ordinates, Reflection, translation	Read and plot co-ordinates in the first quadrant Complete patterns with up to two lines of symmetry Draw the position of shape after a reflection or translation	Rapid recall - 4.12 Recall all multiplication facts up to 12x12
5	AOS/ preparation for year 6	Adapt where needed Number bonds Times tables Secure any gaps	Rapid recall - 4.12 Recall all multiplication facts up to 12x12
6 and 7	Transition		

Year 6		Maths objectives	2024/2025
Week	Autumn 1 8 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Number/ Place value	Numbers to ten million Compare and order any number Round any number Negative numbers	Rapid recall - Gap analysis revision
2	Addition	Use standard column addition to add integers and decimals Use rounding, estimating and approximation to check answers Read, write, order and compare numbers up to 10 000 000 Round any whole number to a required degree of accuracy	Rapid recall - Gap analysis revision
3	Subtraction	Use standard column subtraction (including decomposition) to subtract integers and decimals Use rounding, estimating and approximation to check answers	Rapid recall - Gap analysis revision
4	Perimeter and Area	Calculate the perimeter and area of rectilinear shapes Estimate the area of an irregular shape by counting squares Calculate the area of a parallelogram Calculate the area of right angled triangles given the lengths of the two perpendicular sides Find the volume and surface area of cubes and cuboids using standard units e.g. cm cubed extending to other units eg. Km cubed Solve problems involving similar shapes where the scale factor is known or can be found. Know that shapes with the same area can have different perimeters and vice versa	Rapid recall - Gap analysis revision
5	Division	Use division boxes to divide 4 digit numbers by single digit numbers Use division boxes to divide 4 digit numbers by 2 digit numbers Use long division methods for divisions greater than one digit. Interpret remainders as whole number remainders, fractions or by rounding (appropriate to the context)	Rapid recall - Gap analysis revision
6	Fractions	Find equivalent improper and proper fractions e.g. $\frac{8}{5}$ or 1 whole $\frac{3}{5}$ Simplify fractions by cancelling common factors Order a set of fractions by finding a common denominator and converting them Use knowledge to work backwards to find an amount e.g. $\frac{1}{4}$ of a length is 36cm to $36 \times 4 = 144$ cm the original length. Convert simple fractions to decimals e.g. $\frac{3}{8} = 0.375$ and for those with recurring decimal equivalents they round to decimal places (or other when appropriate)	Rapid recall - Gap analysis revision
7	Problem	Solve 'finding all possibilities' and 'logic' problems using a systematic approach,	Rapid recall - Gap analysis revision

	Solving Multi step	Use numbers, images and diagrams to describe and explain methods Solve multi-step problems (possible link to money) Solve problems involving fractions, decimals and percentages Break problem down into manageable stages Pencil and paper methods	
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Year 6		Maths objectives	2024/2025
Week	Autumn 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Multiplication	Use knowledge of place value and multiplication facts to find related multiplication and division facts involving decimal numbers eg. 0.8×7 Use formal methods to multiply up to 4 digit integers by 2 digit integers (including decimals)	Rapid recall - Gap analysis revision
2	Sequences Formulae	Represent and interpret sequences, patterns and relationships involving numbers and shapes Suggest and test hypotheses to find the link in the pattern Construct and use simple expressions and formulae in words and then symbols Represent information or unknown numbers in a problem using a formulae Use a formulae to find solutions in the context of a problem Express missing number sequences algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables.	Rapid recall - Gap analysis revision
3	Translation Reflection Co-ordinates	Visualise and draw on grids of different types where a shape will be after: reflection, translation Use all four quadrants to find co-ordinates of points determined by geometric information	Rapid recall - Gap analysis revision
4	Data Handling	Collect, organise and represent information Interpret results from given data Identify and answer related questions Use all forms of data representation Link percentages or 360 degrees to calculate angles of pie charts Create pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average	Rapid recall - Gap analysis revision
5	Positive and negative numbers	Find the difference between a positive and a negative integer Find the difference between two negative integers in context	Rapid recall - Gap analysis revision
6	Application of skills week		Rapid recall - Gap analysis revision
7	Problem Solving, Reasoning	Reasoning: Prove whether given statements are true or false	Rapid recall - Gap analysis revision

		<p>(e.g. Ben says 2 digit numbers + 2 digit numbers always total to give an answer which is a 3 digit number - is he correct? True or False)</p> <p>Generate statements to be tested as above.</p> <p>Use numbers, symbols, images and diagrams to describe and explain methods</p>	
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Year 6		Maths objectives	2024/2025
Week	Spring 1 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1	Ratio and Proportion	Solve problems involving ratio and proportion, use appropriate notation e.g. a:b, Use simple scaling quantities up and down as a means to solving simple problems Understand the difference between ratio and proportion Use ratio notation; Reduce a ratio to its simplest form Divide a quantity into two parts in a given ratio eg. 2:5 Use fractions and percentages to identify and compare proportions	Rapid recall - Gap analysis revision
2	Problem Solving Multi Step	Solve multi-step problems Solve problems involving fractions, decimals and percentages Break problem down into manageable stages Use the knowledge of the order of operations to carry out calculations involving the four operations	Rapid recall - Gap analysis revision
3	Time problems	Carry out calculations involving time by converting hours and minutes to minutes Find differences between given times Use am, pm and 24 hour clock notation Calculate time intervals from clocks, calendars and timetables	Rapid recall - Gap analysis revision
4	Decimals, percentages and fractions	Use decimal notation for tenths, hundredths and thousandths Partition, round and order decimals with up to 3 decimal places Find equivalent fractions, decimals and percentages including the use of money e.g. £400 out of £1000 as a percentage etc. Find fractions and percentages of whole number quantities Add and subtract fractions with different denominators and mixed numbers Multiply fractions writing the answer in the simplest forms (use images to support understanding) Divide proper fractions by whole numbers Associate fractions with division and use this to find decimal equivalents	Rapid recall - Gap analysis revision
5	Application of skills week		Rapid recall - Gap analysis revision
6	Angles	Estimate angles Use a protractor to measure and draw angles both on their own and within shapes Construct a triangle given two sides and the included angle Know the sum of angles at a point, on a straight line and in a triangle Recognise vertically opposite angles	Rapid recall - Gap analysis revision

		Calculate angles in a triangle or around a point Use the correct vocabulary, notation and labelling conventions for lines, angles and shapes	
7	Problem solving	Problem solving involving all four operations.	Rapid recall - Gap analysis revision

Year 6		Maths objectives	2024/2025
Week	Spring 2 6 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1-3	Test technique Misconception identification	Practice SATs weeks - gap analysis, taught sessions relating to these, including the use of boosters	Rapid recall - Gap analysis revision
4	Shape	Draw 2D shapes from given dimensions and angles (using a protractor) Recognise, describe and build simple 3D shapes including making nets Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons	Rapid recall - Gap analysis revision
5	Shape	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles	Rapid recall - Gap analysis revision
6	Dependent on cohort need	Develop from assessment	Rapid recall - Gap analysis revision

Year 6		Maths objectives	2024/2025
Week	Summer 1 5 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1-3	Problem solving Multi-step, finding all possibilities, finding formula	Practice SATs weeks - gap analysis, taught sessions relating to these, including the use of boosters	Rapid recall - Gap analysis revision
4	Algebra	Using shapes and then numbers to illustrate algebra and simple linear equations. Practical application of removal of terms from both sides so a visual representation supports their next steps	Rapid recall - Gap analysis revision
5	Shape/angles	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles. Use different shapes within these questions to develop application of prior learning.	Rapid recall - Gap analysis revision
6	Number	Look at squared and cubed numbers, develop children's understanding practically. Look at 10 squared, cubed and begin to use the language 'power of' in preparation for secondary school	Rapid recall - Gap analysis revision

Year 6		Maths objectives	2024/2025
Week	Summer 2 7 weeks	Lesson focus	Automaticity - Rapid Recall Lining up opportunities
1-2	Measures (application to other areas of the curriculum)	Use measures to explore scientific questions, computing challenges, sports day challenges and recipes through ratio and proportion to see the application of maths elsewhere. Allow the children to draw on their prior learning to apply this appropriately. Use 'power of' language to record larger values and simple formula where this naturally occurs.	Rapid recall - Gap analysis revision
3-4	Algebra (application to other areas of maths)	Using formula and writing formula for simple mathematical tasks such as finding area and perimeter for both regular and irregular shapes and word problems including ratio and proportion questions used in week 1-2	Rapid recall - Gap analysis revision
5	Transition	Opportunities to address areas of weakness in smaller groups when the children are in.	Rapid recall - Gap analysis revision
6	Transition	Opportunities to address areas of weakness in smaller groups when the children are in.	Rapid recall - Gap analysis revision

Maths
Scheme of Work

**Maths
Vocabulary**

Vocabulary

Reception

<p>Counting</p> <p>number zero, one, two, three... to twenty and beyond zero, ten, twenty... one hundred none how many...? count, count (up) to count on (from, to) count back (from, to) count in ones, twos... tens... more, less, many, few odd, even every other how many times? pattern, pair guess how many, estimate nearly, close to, about the same as just over, just under too many, too few, enough, not enough</p>	<p>Solving problems</p> <p>Reasoning about numbers or shapes pattern puzzle answer right, wrong what could we try next? how did you work it out? count, sort group, set match same, different list</p>	<p>Measures (general)</p> <p>measure size compare guess, estimate enough, not enough too much, too little too many, too few nearly, close to, about the same as just over, just under</p> <p>Length</p> <p>length, width, height, depth long, short, tall high, low wide, narrow deep, shallow thick, thin longer, shorter, taller, higher... and so on longest, shortest, tallest, highest... and so on far, near, close</p> <p>Mass</p> <p>weigh, weighs, balances heavy/light, heavier/lighter, heaviest/lightest balance, weight, scales</p> <p>Capacity</p> <p>full half full empty holds container</p>
<p>Comparing and ordering numbers</p> <p>the same number as, as many as <i>Of two objects/amounts:</i> greater, more, larger, bigger less, fewer, smaller <i>Of three or more objects/amounts:</i> greatest, most, biggest, largest least, fewest, smallest one more, ten more one less, ten less compare order size first, second, third... tenth last, last but one before, after next between above, below</p>	<p>Problems involving 'real life' or money</p> <p>compare double half, halve pair count out, share out left, left over money coin penny, pence, pound price cost buy sell spend, spent pay change dear, costs more cheap, costs less, cheaper costs the same as how much...? how many...? total</p>	<p>Mass</p> <p>weigh, weighs, balances heavy/light, heavier/lighter, heaviest/lightest balance, weight, scales</p> <p>Capacity</p> <p>full half full empty holds container</p>
<p>Adding and subtracting</p> <p>add, more, and make, sum, total altogether score double one more, two more, ten more... how many more to make... ? how many more is... than...? take (away), leave how many are left/left over? how many have gone? one less, two less... ten less...</p>	<p>Time</p> <p>time <i>days of the week:</i> Monday, Tuesday... day, week birthday, holiday morning, afternoon, evening, night bedtime, dinnertime, playtime today, yesterday, tomorrow before, after next, last now, soon, early, late quick, quicker, quickest, quickly slow, slower, slowest, slowly</p>	<p>Exploring patterns, shape and space</p> <p>shape, pattern flat curved, straight round hollow, solid corner face, side, edge, end sort make, build, draw</p>

<p>how many fewer is... than...? difference between is the same as</p>	<p>old, older, oldest new, newer, newest takes longer, takes less time hour, o'clock clock, watch, hands</p>	
<p>Instructions</p> <p>listen join in say think imagine remember start from start with start at look at point to show me put, place fit arrange rearrange change, change over split separate carry on, continue repeat what comes next? find choose collect use make build tell me describe pick out talk about explain show me read write trace copy complete finish, end fill in shade colour tick, cross draw draw a line between join (up) ring cost count work out answer check</p>	<p>Patterns and symmetry</p> <p>size bigger, larger, smaller symmetrical pattern repeating pattern match</p>	<p>Position, direction and movement</p> <p>position over, under above, below top, bottom, side on, in outside, inside around in front, behind front, back before, after beside, next to opposite apart between middle, edge corner direction left, right up, down forwards, backwards, sideways across close, far, near along through to, from, towards, away from movement slide roll turn stretch, bend</p>
	<p>General</p> <p>same number/s different number/s missing number/s number facts number line, number track number square number cards counters, cubes, blocks, rods die, dice dominoes pegs, peg board same way, different way best way, another way in order, in a different order</p> <p>not all, every, each</p>	<p>3D shapes</p> <p>cube pyramid sphere cone</p> <p>2D shapes</p> <p>circle triangle square rectangle star</p>

Vocabulary

Year 1

<p>Counting, properties of numbers and number sequences</p> <p>number zero, one, two, three... to twenty and beyond zero, ten, twenty... one hundred none how many...? count, count (up) to count on (from, to) count back (from, to) count in ones, twos... tens... more, less, many, few odd, even every other how many times? pattern, pair</p>	<p>Making decisions and reasoning</p> <p>pattern puzzle answer right, wrong what could we try next? how did you work it out? count out, share out, left, left over number sentence sign, operation</p>	<p>Measures (general)</p> <p>measure size compare guess, estimate enough, not enough too much, too little too many, too few nearly, roughly, close to, about the same as just over, just under</p> <p>Length</p> <p>length, width, height, depth long, short, tall high, low wide, narrow deep, shallow thick, thin longer, shorter, taller, higher... and so on longest, shortest, tallest, highest... and so on far, near, close metre ruler, metre stick</p>
<p>Place value and ordering</p> <p>units, ones tens exchange digit 'teens' number the same number as, as many as equal to Of two objects/amounts: greater, more, larger, bigger less, fewer, smaller Of three or more objects/amounts: greatest, most, biggest, largest least, fewest, smallest one more, ten more one less, ten less compare order size first, second, third... tenth, eleventh... twentieth last, last but one before, after next between, half-way between above, below</p>	<p>Problems involving 'real life' or money</p> <p>money coin penny, pence, pound price cost buy sell spend, spent pay change dear, costs more cheap, costs less, cheaper costs the same as how much...? how many...? total</p>	<p>Mass</p> <p>weigh, weighs, balances heavy/light, heavier/lighter, heaviest/lightest balance, scales, weight</p> <p>Capacity</p> <p>full half full empty holds container</p>
<p>Addition and subtraction</p> <p>+, add, more, plus make, sum, total altogether score double, near double one more, two more... ten more how many more to make...? how many more is... than...? how much more is...? -, subtract, take (away), minus leave how many are left/left over?</p>	<p>Time</p> <p>time days of the week: Monday, Tuesday... seasons: spring, summer, autumn, winter day, week, month, year, weekend, birthday, holiday morning, afternoon, evening night, midnight bedtime, dinnertime, playtime today, yesterday, tomorrow before, after next, last, now, soon, early, late quick, quicker, quickest, quickly</p>	<p>Patterns and symmetry</p> <p>size bigger, larger, smaller symmetrical pattern repeating pattern match</p>

<p>how many are gone? one less, two less, ten less... how many fewer is... than...? how much less is...? difference between half, halve =, equals, sign, is the same as</p>	<p>fast, faster, fastest slow, slower, slowest, slowly old, older, oldest new, newer, newest takes longer, takes less time hour, o'clock, half past clock, watch, hands how long ago? how long will it be to...? how long will it take to...? how often? always, never, often, sometimes, usually once, twice</p>	
<p>Instructions</p> <p>listen join in say think imagine remember start from start with start at look at point to put, place fit arrange rearrange change, change over split separate carry on, continue repeat what comes next? find choose collect use make build tell me describe pick out talk about explain show me read write record</p>	<p>Estimating</p> <p>guess how many, estimate nearly, roughly, close to about the same as just over, just under too many, too few, enough, not enough</p> <hr/> <p>Organising and using data</p> <p>count, sort, vote list group, set table</p>	<p>Position, direction and movement</p> <p>position over, under, underneath above, below top, bottom, side on, in outside, inside around in front, behind front, back before, after beside, next to opposite apart between middle, edge centre corner direction journey left, right up, down forwards, backwards, sideways across close, far, near along through to, from, towards, away from movement slide roll turn, whole turn, half turn stretch, bend</p>

trace
copy
complete
finish, end
fill in
shade
colour
tick, cross
draw
draw a line between
join (up)
ring
arrow
cost
count
work out
answer
check

General

same number/s
different number/s
missing number/s
number facts
number line, number track
number square
number cards
abacus
counters, cubes, blocks, rods
die, dice
dominoes
pegs, peg board
same way, different way
best way, another way
in order, in a different order
not
all, every, each

Shape and Space

shape, pattern
flat
curved, straight
round
hollow, solid
corner
point, pointed
face, side, edge, end
sort
make, build, draw

3D shapes

cube
cuboid
pyramid
sphere
cone
cylinder

2D shapes

circle
triangle
square
rectangle
star

Vocabulary

Year 2

Counting, properties of numbers and number sequences

number
zero, one, two, three... to twenty and beyond
zero, ten, twenty... one hundred
zero, one hundred, two hundred... one thousand
none
how many...?
count, count (up) to
count on (from, to)
count back (from, to)
count in ones, twos, threes, fours, fives and so on
count in tens
more, less, many, few
tally
odd, even
every other
how many times?
multiple of
sequence
continue
predict
pattern, pair, rule

Making decisions and reasoning

pattern, puzzle
calculate, calculation
mental calculation
jotting
answer
right, correct, wrong
what could we try next?
how did you work it out?
number sentence
sign, operation, symbol

Measures (general)

measure
size
compare
measuring scale
guess, estimate
enough, not enough
too much, too little
too many, too few
nearly, roughly, about, close to, about the same as
just over, just under

Length

length, width, height, depth
long, short, tall, high, low
wide, narrow, deep, shallow, thick, thin
longer, shorter, taller, higher... and so on
longest, shortest, tallest, highest... and so on
far, further, furthest, near, close
metre (m), centimetre (cm)
ruler, metre stick, tape measure

Place value and ordering

units, ones
tens, hundreds
digit
one-, two- or three-digit number
'teens' number
place, place value
stands for, represents
exchange
the same number as, as many as
equal to
Of two objects/amounts:
greater, more, larger, bigger
less, fewer, smaller
Of three or more objects/amounts:
greatest, most, biggest, largest
least, fewest, smallest
one more, ten more
one less, ten less
compare
order
size
first, second, third... tenth... twentieth
twenty-first, twenty-second...
last, last but one
before, after
next
between, half-way between
above, below

Problems involving 'real life' or money

money
coin
penny, pence, pound, (£)
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more
cheap, costs less, cheaper
how much...? how many...?
total

Mass

weigh, weighs, balances
heavy/light, heavier/lighter, heaviest/lightest
kilogram (kg), half-kilogram, gram(g)
balance, scales, weight

Capacity

capacity
full, half full
empty
holds, contains
litre (l), half-litre, millilitre (ml)
container

Addition and subtraction

+, add, addition, more, plus
make, sum, total
altogether
score
double, near double
one more, two more... ten more... one hundred more
how many more to make...?
how many more is... than...?
how much more is...?
-, subtract, take away, minus
leave, how many are left/left over?
one less, two less... ten less... one hundred less
how many less is... than...?
how much fewer is...?
difference between
half, halve
=, equals, sign, is the same as
tens boundary

Time

time
days of the week: Monday, Tuesday...
months of the year: January, February...
seasons: spring, summer, autumn, winter
day, week, fortnight, month, year
weekend
birthday, holiday
morning, afternoon, evening, night, midnight
bedtime, dinnertime, playtime
today, yesterday, tomorrow
before, after
next, last
now, soon, early, late
quick, quicker, quickest, quickly
fast, faster, fastest
slow, slower, slowest, slowly
old, older, oldest
new, newer, newest
takes longer, takes less time
how long ago?/how long will it be to...?
how long will it take to...?
hour, minute, second
o'clock, half past, quarter to, quarter past
clock, watch, hands
digital/analogue clock/watch, timer
how often?
always, never, often, sometimes, usually
once, twice

Patterns and symmetry

size
bigger, larger, smaller
symmetrical
line of symmetry
fold
match
mirror line, reflection
pattern
repeating pattern

<p>Instructions</p> <p>listen join in say recite think imagine remember start from start with start at look at point to show me put, place fit arrange, rearrange change, change over split separate carry on, continue repeat what comes next...? predict describe the pattern describe the rule find, find all, find different investigate choose decide collect use make build tell me describe name pick out discuss talk about explain explain your method explain how you got your answer give an example of... show how you... read write record write in figures present represent trace copy complete finish, end fill in, shade, colour label tick, cross draw, draw a line between join (up) ring arrow cost, count, tally calculate work out solve</p>	<p>Multiplication and division</p> <p>lots of, groups of x, times, multiply, multiplied by multiple of once, twice, three times, four times, five times... ten times... times as (big, long, wide and so on) repeated addition array row, column double, halve share, share equally one each, two each, three each... group in pairs, threes... tens equal groups of ÷, divide, divided by, divided into, left, left over</p>	<p>Fractions</p> <p>part, equal parts fraction one whole one half, two halves one quarter, two... three... four quarters Words new to Year 2 are emphasised</p>
	<p>Estimating</p> <p>guess how many, estimate nearly, roughly, close to about the same as just over, just under exact, exactly too many, too few, enough, not enough round, nearest, round to the nearest ten</p>	<p>Position, direction and movement</p> <p>position over, under, underneath above, below top, bottom, side on, in outside, inside around in front, behind front, back before, after beside, next to opposite apart between middle, edge centre corner direction journey, route left, right up, down higher, lower forwards, backwards, sideways across close, far, near along through to, from, towards, away from clockwise, anti-clockwise movement slide roll whole turn, half turn, quarter turn right angle straight line stretch, bend</p>
	<p>Organising and using data</p> <p>count, tally, sort, vote graph, block graph, pictogram represent group, set list, table label, title most popular, most common least popular, least common</p>	

answer
check

General

same, different
missing number/s
number facts
number pairs
number bonds
number line, number track
number square, hundred square
number cards
number grid
abacus
counters, cubes, blocks, rods
die, dice
dominoes
pegs, peg board
geo-strips
same way, different way
best way, another way
in order, in a different order
not
all, every, each

Shape and Space

shape, pattern
flat, curved, straight
round
hollow, solid
corner
point, pointed
face, side, edge, end
sort
make, build, draw
surface

3D shapes

cube
cuboid
pyramid
sphere
cone
cylinder

2D shapes

circle, circular
triangle, triangular
square
rectangle, rectangular
star
pentagon
hexagon
octagon

Vocabulary

Year 3

<p>Counting, properties of numbers and number sequences</p> <p>number zero, one, two, three... to twenty and beyond zero, ten, twenty... one hundred zero, one hundred, two hundred... one thousand none how many...? count, count (up) to count on (from, to) count back (from, to) count in ones, twos, threes, fours, fives and so on count in tens, hundreds more, less, many, few tally odd, even every other how many times? multiple of sequence continue predict pattern, pair, rule relationship</p>	<p>Making decisions and reasoning</p> <p>pattern, puzzle calculate, calculation mental calculation method jotting answer right, correct, wrong what could we try next? how did you work it out? number sentence sign, operation, symbol, equation</p>	<p>Measures (general)</p> <p>measure size compare measuring scale, division guess, estimate enough, not enough too much, too little too many, too few nearly, roughly, about, close to, about the same as, approximately just over, just under</p> <p>Length</p> <p>length, width, height, depth long, short, tall, high, low wide, narrow, deep, shallow, thick, thin longer, shorter, taller, higher... and so on longest, shortest, tallest, highest... and so on far, further, furthest, near, close distance apart/between... to... from kilometre (km), metre (m), centimetre (cm) mile ruler, metre stick, tape measure</p>
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Place value and ordering

units, ones
tens, hundreds
digit
one-, two- or three-digit number
'teens' number
place, place value
stands for, represents
exchange
the same number as, as many as
equal to
Of two objects/amounts:
greater, more, larger, bigger
less, fewer, smaller
Of three or more objects/amounts:
greatest, most, biggest, largest
least, fewest, smallest
one more, ten more, one hundred more
one less, ten less, one hundred less
compare
order
size
first, second, third... tenth... twentieth
twenty-first, twenty-second...
last, last but one
before, after
next
between, half-way between
above, below

Problems involving 'real life' or money

money
coin, note
penny, pence, pound, (£)
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more, more/most expensive
cheap, costs less, cheaper, less/least expensive
how much...? how many...?
total, amount
value, worth

Mass

weigh, weighs, balances
heavy/light, heavier/lighter, heaviest/lightest
kilogram (kg), half-kilogram, gram (g)
balance, scales, weight

Capacity

capacity
full, half full
empty
holds, contains
litre (l), half-litre, millilitre (ml)
container

Addition and subtraction

+, add, addition, more, plus
make, sum, total
altogether
score
double, near double
one more, two more... ten more... one hundred more
how many more to make ...?
how many more is... than ...?
how much more is...?
-, subtract, take (away), minus
leave, how many are left/left over?
one less, two less... ten less... one hundred less
how many fewer is... than ...?
how much less is...?
difference between
half, halve
=, equals, sign, is the same as
tens boundary, hundreds boundary

Time

time
days of the week: Monday, Tuesday...
months of the year: January, February...
seasons: spring, summer, autumn, winter
day, week, fortnight, month, year, century
weekend
birthday, holiday
calendar, date
morning, afternoon, evening, night, midnight
am, pm
bedtime, dinnertime, playtime
today, yesterday, tomorrow
before, after
next, last
now, soon, early, late, earliest, latest
quick, quicker, quickest, quickly
fast, faster, fastest
slow, slower, slowest, slowly
old, older, oldest
new, newer, newest
takes longer, takes less time
how long ago?/how long will it be to...?
how long will it take to...?
hour, minute, second
o'clock, half past, quarter to, quarter past
clock, watch, hands
digital/analogue clock/watch, timer
how often?
always, never, often, sometimes, usually
once, twice

Patterns and symmetry

size
bigger, larger, smaller
symmetrical
line of symmetry
fold
match
mirror line, reflection
pattern
repeating pattern

<p>Instructions</p> <p>listen join in say recite think imagine remember start from start with start at look at point to show me put, place fit arrange, rearrange change, change over split separate carry on, continue repeat what comes next? predict describe the pattern describe the rule find, find all, find different investigate choose decide collect</p>	<p>Multiplication and division</p> <p>lots of, groups of x, times, multiplication, multiply, multiplied by multiple of, product once, twice, three times, four times, five times... ten times... times as (big, long, wide and so on) repeated addition array row, column double, halve share, share equally one each, two each, three each... group in pairs, threes... tens equal groups of ÷, divide, division, divided by, divided into left, left over, remainder</p>	<p>Fractions</p> <p>part, equal parts fraction one whole one half, two halves one quarter, two... three... four quarters one third, two thirds one tenth</p>
	<p>Estimating</p> <p>guess how many, estimate nearly, roughly, close to approximate, approximately about the same as just over, just under exact, exactly too many, too few, enough, not enough round (up or down) nearest (round to the nearest ten)</p>	<p>Position, direction and movement</p> <p>position over, under, underneath above, below top, bottom, side on, in outside, inside around in front, behind front, back before, after</p>

use
make
build
tell me
describe
name
pick out
discuss
talk about
explain
explain your method
explain how you got your answer
give an example of...
show how you...
show your working
read
write
record
write in figures
present
represent
interpret
trace
copy
complete
finish, end
fill in
shade, colour
label
tick, cross
draw, sketch
draw a line between
join (up)
ring
arrow
cost, count, tally
calculate
work out
solve

Handling data

count, tally, sort, vote
graph, block graph, pictogram
represent
group, set
list, chart, bar chart
table, frequency table
Carroll diagram, Venn diagram
label, title, axis, axes
diagram
most popular, most common
least popular, least common

beside, next to
opposite
apart
between
middle, edge
centre
corner
direction
journey, route, map, plan
left, right
up, down
higher, lower
forwards, backwards, sideways
across
close, far, near
along
through
to, from, towards, away from
ascend, descend
grid
row, column
clockwise, anti-clockwise
compass point
north, south, east, west, (N, S, E, W)
horizontal, vertical
diagonal
movement
slide
roll
whole turn, half turn, quarter turn
angle, ...is a greater/smaller angle than right
angle
straight line
stretch, bend

investigate
question
answer
check

General

same, different
missing number/s
number facts, number pairs, number bonds
greatest value, least value
number line, number track
number square, hundred square
number cards
number grid
abacus
counters, cubes, blocks, rods
die, dice
dominoes
pegs, peg board
geo-strips
same way, different way
best way, another way
in order, in a different order
not
all, every, each

Shape and Space

shape, pattern
flat, curved, straight
round
hollow, solid
corner
point, pointed
face, side, edge, end
sort
make, build, draw
surface
right-angled
vertex, vertices
layer, diagram

3D shapes

cube
cuboid
pyramid
sphere, hemi-sphere
cone
cylinder
prism

2D shapes

circle, circular, semi-circle
triangle, triangular
square
rectangle, rectangular
star
pentagon, pentagonal
hexagon, hexagonal
octagon, octagonal
quadrilateral

Vocabulary

Year 4

<p>Counting, properties of numbers and number sequences</p> <p>number, count, how many...? odd, even every other how many times? multiple of digit next, consecutive sequence continue predict pattern, pair, rule relationship sort, classify, property</p>	<p>Making decisions and reasoning</p> <p>pattern, puzzle calculate, calculation mental calculation method jotting answer right, correct, wrong what could we try next? how did you work it out? number sentence sign, operation, symbol, equation</p>	<p>Measures (general)</p> <p>measure, measurement size compare unit, standard unit metric unit, imperial unit measuring scale, division guess, estimate enough, not enough too much, too little too many, too few nearly, roughly, about, close to about the same as, approximately just over, just under</p> <p>Length</p> <p>length, width, height, depth, breadth long, short, tall, high, low wide, narrow, deep, shallow, thick, thin longer, shorter, taller, higher... and so on longest, shortest, tallest, highest... and so on far, further, furthest, near, close distance apart... between... to... from edge, perimeter kilometre (km), metre (m), centimetre (cm), millimetre (mm) mile ruler, metre stick, tape measure</p>
<p>Place value and ordering and rounding</p> <p>units, ones tens, hundreds, thousands ten thousand, hundred thousand, million digit, one-, two-, three- or four-digit number numeral 'teens' number place, place value stands for, represents exchange the same number as, as many as equal to Of two objects/amounts: >, greater than, bigger than, more than, larger than <, less than, fewer than, smaller than Of three or more objects/amounts: greatest, most, largest, biggest least, fewest, smallest, one... ten... one hundred... one thousand more/less compare, order, size first... tenth... twentieth last, last but one before, after next between, half-way between guess how many, estimate nearly, roughly, close to, about the same as approximate, approximately just over, just under exact, exactly too many, too few, enough, not enough round (up or down), nearest round to the nearest ten round to the nearest hundred integer, positive, negative above/below zero, minus</p>	<p>Problems involving 'real life' or money</p> <p>money coin, note penny, pence, pound, (£) price, cost buy, bought, sell, sold spend, spent pay change dear, costs more, more/most expensive cheap, costs less, cheaper, less/least expensive how much...? how many...? total, amount value, worth</p>	<p>Mass</p> <p>mass: big, bigger, small, smaller, balances weight: heavy/light, heavier/lighter, heaviest/lightest weigh, weighs kilogram (kg), half-kilogram, gram (g) balance, scales</p> <p>Capacity</p> <p>capacity full, half full empty holds, contains litre (l), half-litre, millilitre (ml) pint container, measuring cylinder</p>

Addition and subtraction

add, addition, more, plus, increase
sum, total, altogether
score
double, near double
how many more to make...?
subtract, subtraction, take away, minus, decrease
leave, how many are left/left over?
difference between
half, halve
how many more/fewer is... than...?
how much more/less is...?
is the same as, equals, sign
tens boundary, hundreds boundary
inverse

Time

time
days of the week: Monday, Tuesday...
months of the year: January, February...
seasons: spring, summer, autumn, winter
day, week, fortnight, month
year, leap year, century, millennium
weekend, birthday
holiday
calendar, date, date of birth
morning, afternoon, evening, night
am, pm, noon, midnight
today, yesterday, tomorrow
before, after, next, last
now, soon, early, late, earliest, latest
quick, quicker, quickest, quickly
fast, faster, fastest, slow, slower, slowest, slowly
old, older, oldest, new, newer, newest
takes longer, takes less time
how long ago?/how long will it be to...?
how long will it take to...?
timetable, arrive, depart
hour, minute, second
o'clock, half past, quarter to, quarter past
clock, watch, hands
digital/analogue clock/watch, timer
how often?
always, never, often, sometimes, usually

Patterns and symmetry

size
bigger, larger, smaller
symmetrical
line of symmetry, line symmetry
fold
match
mirror line, reflection, reflect
pattern, repeating pattern, translation

Area

area, covers, surface
square centimetre (cm²)

<p>Instructions</p> <p>listen, join in, say, recite think, imagine, remember start from, start with, start at look at, point to, show me put, place arrange, rearrange change, change over split, separate carry on, continue, repeat what comes next? predict describe the pattern, describe the rule find, find all, find different investigate choose, decide collect use, make, build, construct tell me, describe, name, pick out discuss, talk about explain explain your method explain how you got your answer give an example of... show how you... show your working justify make a statement read, write, record write in figures present, represent interpret trace, copy complete, finish, end fill in, shade, colour label, plot</p>	<p>Multiplication and division</p> <p>lots of, groups of times, multiplication, multiply, multiplied by multiple of, product once, twice, three times four times, five times... ten times times as (big, long, wide, and so on) repeated addition array row, column double, halve share, share equally one each, two each, three each... group in pairs, threes... tens equal groups of divide, division, divided by, divided into, divisible by remainder factor, quotient inverse</p>	<p>Fractions and decimals</p> <p>part, equal parts fraction one whole half, quarter, eighth third, sixth fifth, tenth, twentieth proportion, in every, for every decimal, decimal fraction decimal point, decimal place Words new to Year 4 are emphasised</p>
	<p>Estimating</p> <p>guess how many, estimate nearly, roughly, close to approximate, approximately about the same as just over, just under exact, exactly too many, too few, enough, not enough round (up or down) nearest (round to the nearest ten)</p>	<p>Position, direction and movement</p> <p>position over, under, underneath above, below, top, bottom, side on, in, outside, inside, around in front, behind, front, back before, after, beside, next to opposite, apart between, middle, edge, centre corner direction</p>

tick, cross
draw, sketch
draw a line between, join (up), ring, arrow
cost, count, tally
calculate, work out, solve
investigate, question
answer
check

Handling data

count, tally, sort, vote
survey, questionnaire, data
graph, block graph, pictogram
represent
group, set
list, chart, bar chart, tally chart
table, frequency table
Carroll diagram, Venn diagram
label, title, axis, axes
diagram
most popular, most common
least popular, least common

journey, route, map, plan
left, right
up, down, higher, lower
forwards, backwards, sideways, across
close, far, near
along, through, to, from, towards, away from
ascend, descend
grid
row, column
origin, coordinates
clockwise, anti-clockwise
compass point, north, south, east, west (N, S, E, W)
north-east, north-west, south-east, south-west (NE, NW, SE, SW)
horizontal, vertical, diagonal
movement
slide, roll
whole turn, half turn, quarter turn, rotate
angle, ...is a greater/smaller angle than
right angle
degree
straight line
stretch, bend
ruler, set square
angle measurer, compasses

General

same, different
missing number/s
number facts, number pairs, number bonds
greatest value, least value
number line, number track
number square, hundred square
number cards, number grid
abacus
counters, cubes, blocks, rods
die, dice
dominoes
pegs, peg board, pin board
geo-strips
same way, different way
best way, another way
in order, in a different order
not
all, every, each

Shape and Space

shape, pattern
flat, line
curved, straight
round
hollow, solid
corner
point, pointed
face, side, edge, end
sort
make, build, construct, draw, sketch
centre, radius, diameter, perimeter
net
surface
angle, right-angled
base, square-based
vertex, vertices
layer, diagram
regular, irregular
concave, convex
open, closed

3D shapes

3D, three-dimensional
cube
cuboid
pyramid
sphere, hemi-sphere, spherical
cone
cylinder, cylindrical
prism
tetrahedron, polyhedron

2D shapes

2D, two-dimensional
circle, circular, semi-circle
triangle, triangular
equilateral triangle, isosceles triangle
square
rectangle, rectangular, oblong
pentagon, pentagonal
hexagon, hexagonal
heptagon
octagon, octagonal
polygon
quadrilateral

Vocabulary

Year 5

<p>Counting, properties of numbers and number sequences</p> <p>number, count, how many...? odd, even every other how many times? multiple of digit next, consecutive sequence continue predict pattern, pair, rule relationship sort, classify, property formula divisible (by), divisibility, factor square number one squared, two squared...(12, 22...)</p>	<p>Making decisions and reasoning</p> <p>pattern, puzzle calculate, calculation mental calculation method, strategy jotting answer right, correct, wrong what could we try next? how did you work it out? number sentence sign, operation, symbol, equation</p>	<p>Measures (general)</p> <p>measure, measurement size compare unit, standard unit metric unit, imperial unit measuring scale, division guess, estimate enough, not enough too much, too little too many, too few nearly, roughly, about, close to about the same as, approximately just over, just under</p> <p>Length</p> <p>length, width, height, depth, breadth long, short, tall, high, low</p>
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Place value and ordering and rounding

units, ones
tens, hundreds, thousands
ten thousand, hundred thousand, million
digit, one-, two-, three- or four-digit number
numeral
'teens' number
place, place value
stands for, represents
exchange
the same number as, as many as
equal to
Of two objects/amounts:
>, greater than, more than, larger than, bigger than
<, less than, fewer than, smaller than
>, greater than or equal to
<, less than or equal to
Of three or more objects/amounts:
greatest, most, largest, biggest
least, fewest, smallest
one... ten... one hundred... one thousand
more/less
compare, order, size
ascending/descending order
first... tenth... twentieth
last, last but one
before, after, next
between, half-way between
guess how many, estimate
nearly, roughly, close to, about the same as
approximate, approximately
≈, is approximately equal to
just over, just under
exact, exactly
too many, too few, enough, not enough
round (up or down), nearest
round to the nearest ten/hundred
round to the nearest thousand
integer
positive, negative
above/below zero, minus

Problems involving 'real life' or money

money
coin, note
penny, pence, pound, (£)
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more, more/most expensive
cheap, costs less, cheaper, less/least expensive
how much...? how many...?
total, amount, value, worth
discount
currency

wide, narrow, deep, shallow, thick, thin
longer, shorter, taller, higher... and so on
longest, shortest, tallest, highest... and so on
far, further, furthest, near, close
distance apart/between... to... from
edge, perimeter
kilometre (km), metre (m), centimetre (cm),
millimetre (mm)
mile
ruler, metre stick, tape measure

Mass

mass: big, bigger, small, smaller, balances
weight: heavy/light, heavier/lighter,
heaviest/lightest
weigh, weighs
kilogram (kg), half-kilogram, gram (g)
balance, scales

Capacity

capacity
full, half full
empty
holds, contains
litre (l), half-litre, millilitre (ml)
pint, gallon
container, measuring cylinder

<p>Addition and subtraction</p> <p>add, addition, more, plus, increase sum, total, altogether score double, near double how many more to make...? subtract, subtraction, take (away), minus, decrease leave, how many are left/left over? difference between half, halve how many more/ fewer is... than...? how much more/less is...? equals, sign, is the same as tens boundary, hundreds boundary units boundary, tenths boundary inverse</p>	<p>Time</p> <p>time days of the week: Monday, Tuesday... months of the year: January, February... seasons: spring, summer, autumn, winter day, week, fortnight, month year, leap year, century, millennium weekend, birthday holiday calendar, date, date of birth morning, afternoon, evening, night am, pm, noon, midnight today, yesterday, tomorrow before, after, next, last now, soon, early, late, earliest, latest quick, quicker, quickest, quickly fast, faster, fastest, slow, slower, slowest, slowly old, older, oldest, new, newer, newest takes longer, takes less time how long ago?/how long will it be to...? how long will it take to...? timetable, arrive, depart hour, minute, second o'clock, half past, quarter to, quarter past clock, watch, hands digital/analogue clock/watch, timer 24-hour clock, 12-hour clock how often? always, never, often, sometimes, usually</p>	<p>Patterns and symmetry</p> <p>size bigger, larger, smaller symmetrical line of symmetry, axis of symmetry line symmetry, reflective symmetry fold match mirror line, reflection, reflect pattern, repeating pattern, translation</p> <p>Area</p> <p>area, covers, surface square centimetre (cm²), square metre (m²) square millimetre (mm²)</p>
<p>Instructions</p> <p>listen, join in, say, recite think, imagine, remember start from, start with, start at look at, point to, show me put, place arrange, rearrange change, change over split, separate carry on, continue, repeat what comes next? predict describe the pattern, describe the rule find, find all, find different investigate choose, decide collect use, make, build, construct, bisect</p>	<p>Multiplication and division</p> <p>lots of, groups of times, multiply, multiplication, multiplied by multiple of, product once, twice, three times four times, five times... ten times times as (big, long, wide, and so on) repeated addition array row, column double, halve share, share equally one each, two each, three each... group in pairs, threes... tens equal groups of divide, divided by, divided into, divisible by remainder factor, quotient, divisible by inverse</p>	<p>Fractions, decimals, percentages, ratio and proportion</p> <p>part, equal parts fraction, proper/improper fraction mixed number numerator, denominator equivalent, reduced to, cancel one whole half, quarter, eighth third, sixth, ninth, twelfth fifth, tenth, twentieth, hundredth proportion, ratio in every, for every to every, as many as decimal, decimal fraction decimal point, decimal place percentage, per cent, %</p>

tell me, describe, name, pick out, identify
 discuss, talk about
 explain
 explain your method/answer/ reasoning
 give an example of...
 show how you...
 show your working
 justify
 make a statement
 read, write, record
 write in figures
 present, represent
 interpret
 trace, copy, complete, finish, end
 fill in, shade, colour, label, plot
 tick, cross
 draw, sketch, draw a line between, join (up),
 ring, arrow
 cost, count, tally
 calculate, work out, solve, convert
 investigate, question, answer
 check

General

name, different
 missing number/s
 number facts, number pairs, number bonds
 greatest value, least value
 number line, number track
 number square, hundred square
 number cards, number grid
 abacus
 counters, cubes, blocks, rods
 die, dice, spinner
 dominoes
 pegs, peg board, pin board
 geo-strips
 same way, different way
 best way, another way
 in order, in a different order
 not
 all, every, each

Probability

fair, unfair
 likely, unlikely, likelihood
 certain, uncertain
 probable, possible, impossible
 chance, good chance
 poor chance, no chance
 risk, doubt

Handling data

count, tally, sort, vote
 survey, questionnaire
 data, database
 graph, block graph, line graph
 pictogram,
 represent
 group, set
 list, chart, bar chart, bar line chart
 tally chart
 table, frequency table
 Carroll diagram, Venn diagram
 label, title, axis, axes
 diagram
 most popular, most common
 least popular, least common
 mode, range
 maximum/minimum value
 classify, outcome

Position, direction and movement

position
 over, under, underneath
 above, below, top, bottom, side
 on, in, outside, inside, around
 in front, behind, front, back
 before, after, beside, next to
 opposite, apart
 between, middle, edge, centre
 corner
 direction
 journey, route, map, plan
 left, right
 up, down, higher, lower
 forwards, backwards, sideways, across
 next to, close, far
 along, through, to, from, towards, away from
 ascend, descend
 grid, row, column
 origin, coordinates

Shape and Space

shape, pattern
flat, line
curved, straight
round
hollow, solid
corner
point, pointed
face, side, edge, end
sort
make, build, construct, draw, sketch
centre, radius, diameter, perimeter
net
surface
angle, right-angled
congruent
base, square-based
vertex, vertices
layer, diagram
regular, irregular
concave, convex
open, closed

3D shapes

3D, three-dimensional
cube, cuboid
pyramid
sphere, hemi-sphere, spherical
cone
cylinder, cylindrical
prism
tetrahedron, polyhedron, octahedron

2D shapes

2D, two-dimensional
circle, circular, semi-circle
triangle, triangular
equilateral triangle, isosceles triangle, scalene
triangle
square
rectangle, rectangular, oblong
pentagon, pentagonal
hexagon, hexagonal
heptagon
octagon, octagonal
polygon
quadrilateral

clockwise, anti-clockwise
compass point, north, south, east, west (N, S, E, W)
north-east, north-west, south-east, south-west (NE, NW, SE, SW)
horizontal, vertical, diagonal
parallel, perpendicular
x-axis, y-axis
quadrant
movement
slide, roll
whole turn, half turn, quarter turn
rotate, rotation
angle, ...is a greater/smaller angle than
right angle, acute, obtuse
degree
straight line
stretch, bend
ruler, set square
angle measurer, compasses, protractor

Vocabulary

Year 6

<p>Counting, properties of numbers and number sequences</p> <p>number, count, how many...? odd, even every other how many times? multiple of digit next, consecutive sequence continue predict pattern, pair, rule relationship sort, classify, property formula divisible (by), divisibility, factor, factorise square number one squared, two squared...(12, 22...) prime, prime factor</p>	<p>Making decisions and reasoning</p> <p>pattern, puzzle calculate, calculation mental calculation method, strategy jotting answer right, correct, wrong what could we try next? how did you work it out? number sentence sign, operation, symbol, equation</p>	<p>Measures (general)</p> <p>measure, measurement size compare unit, standard unit metric unit, imperial unit measuring scale, division guess, estimate enough, not enough too much, too little too many, too few nearly, roughly, about, close to about the same as, approximately just over, just under</p> <p>Length</p> <p>length, width, height, depth, breadth long, short, tall, high, low wide, narrow, deep, shallow, thick, thin</p>
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Place value and ordering and rounding

: units, ones
tens, hundreds, thousands
ten thousand, hundred thousand, million
digit, one-, two-, three- or four-digit number
numeral
'teens' number
place, place value
stands for, represents
exchange
the same number as, as many as
equal to
Of two objects/amounts:
>, greater than, more than, larger than, bigger than
<, less than, fewer than, smaller than
>, greater than or equal to
<, less than or equal to
Of three or more objects/amounts:
greatest, most, largest, biggest
least, fewest, smallest,
one... ten... one hundred... one thousand
more/less
compare, order, size
ascending/descending order
first... tenth... twentieth
last, last but one
before, after
next
between, half-way between
guess how many, estimate
nearly, roughly, close to, about the same as
approximate, approximately
≈, is approximately equal to
just over, just under
exact, exactly
too many, too few, enough, not enough
round (up or down), nearest
round to the nearest ten/hundred/thousand
integer, positive, negative
above/below zero, minus

Problems involving 'real life' or money

money
coin, note
penny, pence, pound, (£)
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more, more/most expensive
cheap, costs less, cheaper, less/least expensive
how much...? how many...?
total, amount, value
discount, profit, loss
currency

longer, shorter, taller, higher... and so on
longest, shortest, tallest, highest... and so on
far, further, furthest, near, close
distance apart/between... to... from
edge, perimeter, circumference
kilometre (km), metre (m), centimetre (cm),
millimetre (mm)
mile, yard, feet, foot, inches, inch
ruler, metre stick, tape measure, compasses

Mass

mass: big, bigger, small, smaller, balances
weight: heavy/light, heavier/lighter,
heaviest/lightest
weigh, weighs
tonne, kilogram (kg), half-kilogram, gram (g)
pound, ounce
balance, scales

Capacity

capacity
full, half full
empty
holds, contains
litre (l), half-litre, centilitre (cl), millilitre (ml)
pint, gallon
container, measuring cylinder

<p>Addition and subtraction</p> <p>add, addition, more, plus, increase sum, total, altogether score double, near double how many more to make...? subtract, subtraction, take (away), minus, decrease leave, how many are left/left over? difference between half, halve how many more/fewer is... than...? how much more/less is...? is the same as, equals, sign tens boundary, hundreds boundary units boundary, tenths boundary inverse</p>	<p>Time</p> <p>time days of the week: Monday, Tuesday... months of the year: January, February... seasons: spring, summer, autumn, winter day, week, fortnight, month year, leap year, century, millennium weekend, birthday holiday calendar, date, date of birth morning, afternoon, evening, night am, pm, noon, midnight today, yesterday, tomorrow before, after, next, last now, soon, early, late, earliest, latest quick, quicker, quickest, quickly fast, faster, fastest, slow, slower, slowest, slowly old, older, oldest, new, newer, newest takes longer, takes less time how long ago?/how long will it be to...? how long will it take to...? timetable, arrive, depart hour, minute, second o'clock, half past, quarter to, quarter past clock, watch, hands digital/analogue clock/watch, timer 24-hour clock, 12-hour clock Greenwich Mean Time, British Summer Time International Date Line how often? always, never, often, sometimes, usually</p>	<p>Patterns and symmetry</p> <p>size bigger, larger, smaller symmetrical line of symmetry, axis of symmetry line symmetry, reflective symmetry fold match mirror line, reflection, reflect pattern, repeating pattern, translation</p> <hr/> <p>Area</p> <p>area, covers, surface square centimetre (cm²), square metre (m²) square millimetre (mm²)</p>
<p>General</p> <p>same, identical, different missing number/s number facts, number pairs, number bonds greatest value, least value number line, number track number square, hundred square number cards, number grid abacus counters, cubes, blocks, rods die, dice, spinner dominoes pegs, peg board, pin board geo-strips same way, different way best way, another way in order, in a different order</p>	<p>Multiplication and division</p> <p>lots of, groups of times, multiplication, multiply, multiplied by multiple of, product once, twice, three times four times, five times... ten times times as (big, long, wide, and so on) repeated addition array, row, column double, halve share, share equally one each, two each, three each... group in pairs, threes... tens equal groups of divide, division, divided by, divided into remainder factor, quotient, divisible by inverse</p>	<p>Fractions, decimals, percentages, ratio and proportion</p> <p>part, equal parts fraction, proper/improper fraction mixed number numerator, denominator equivalent, reduced to, cancel one whole half, quarter, eighth third, sixth, ninth, twelfth fifth, tenth, twentieth hundredth, thousandth proportion, ratio, in every, for every to every, as many as decimal, decimal fraction decimal point, decimal place percentage, per cent, %</p>

<p>Instructions</p> <p>listen, join in, say, recite think, imagine, remember start from, start with, start at look at, point to, show me put, place arrange, rearrange change, change over adjusting, adjust split, separate carry on, continue, repeat what comes next?, predict describe the pattern, describe the rule find, find all, find different investigate choose, decide collect use, make, build, construct, bisect tell me, define, describe, name, pick out, identify discuss, talk about explain explain your method/answer/reasoning give an example of... show how you... show your working justify make a statement read, write, record write in figures present, represent interpret trace, copy complete, finish, end fill in, shade, colour label, plot tick, cross draw, sketch draw a line between, join (up), ring, arrow cost, count, tally calculate, work out, solve, convert investigate, interrogate (data), question, prove answer check</p>	<p>Probability</p> <p>fair, unfair likely, unlikely, likelihood, equally likely certain, uncertain probable, possible, impossible chance, good chance, poor chance, no chance equal chance, even chance, fifty-fifty chance risk, doubt biased, random</p>	<p>Position, direction and movement</p> <p>position over, under, underneath above, below, top, bottom, side on, in, outside, inside, around in front, behind, front, back before, after, beside, next to opposite, apart between, middle, edge, centre corner direction journey, route, map, plan left, right up, down, higher, lower forwards, backwards, sideways, across close, far, near along, through, to, from, towards, away from ascend, descend grid, row, column origin, coordinates clockwise, anti-clockwise compass point, north, south, east, west (N, S, E, W) north-east, north-west, south-east, south-west (NE, NW, SE, SW) horizontal, vertical, diagonal parallel, perpendicular x-axis, y-axis quadrant movement slide, roll whole turn, half turn, quarter turn, rotate, rotation angle, ...is a greater/smaller angle than right angle, acute, obtuse, reflex degree straight line stretch, bend ruler, set square angle measurer, compasses, protractor</p>
	<p>Handling data</p> <p>count, tally, sort, vote survey, questionnaire data, database graph, block graph, line graph pictogram, represent group, set list, chart, bar chart, bar line chart tally chart table, frequency table Carroll diagram, Venn diagram label, title, axis, axes diagram most popular, most common least popular, least common mode, range, mean, average, median statistics, distribution maximum/minimum value classify, outcome</p>	

Shape and Space

shape, pattern
flat, line
curved, straight
round
hollow, solid
corner
point, pointed
face, side, edge, end
sort
make, build, construct, draw, sketch
centre, radius, diameter, perimeter
circumference, concentric, arc
net
surface
angle, right-angled
congruent
intersecting, intersection
plane
base, square-based
vertex, vertices
layer, diagram
regular, irregular
concave, convex
open, closed

3D shapes

3D, three-dimensional
cube, cuboid
pyramid
sphere, hemi-sphere, spherical
cone
cylinder, cylindrical
prism
tetrahedron, polyhedron, octahedron,
dodecahedron

2D shapes

2D, two-dimensional
circle, circular, semi-circle
triangle, triangular
equilateral triangle, isosceles triangle, scalene
triangle
square, rhombus
rectangle, rectangular, oblong
pentagon, pentagonal
hexagon, hexagonal
heptagon
octagon, octagonal
polygon
quadrilateral
kite
parallelogram, trapezium