

Maths in the Early Years Foundation Stage

Development Matters and Statutory ELGS Recite numbers past 5. Count objects, actions and sounds. Count objects, actions and sounds. Utilined a top- level view of how children develop and orderly, as such these are used as a pathway to help Recite numbers past 5. Say one number rached when counting a small set of objects tells you now many there are in total (tradinal principle). Count objects, actions and sounds. Count beyond ten. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Subtitise (recognising quantities without counting) up to 5. Subtitise (recognising quantities without counting) up to 5. Automatically recall (without- reference to rhymes, counting or other aids) number bonds to 10, including double facts. orderly, as such help practitioners assess each child's level of development and make intermed With out counting up to 5. Compare numbers up to 5. Subtitise (recognising quantities without counting) up to 5. Make comparisons between objects relating to size, length, weight and capacity. Statiger triangles and cuboids) using informal and mathematical bind' Automatically recall number sounds for numbers 0-5 and some to 10. Make comparisons between objects relating to size, length, weight and capacity. Selects notes and locations, using words like in front of and behind' Selects thapes appropriately: flat surfaces for building, a trianglearc. Make comparisons between objects relating to size, and decompose shapes so that childr	Development Matters and Statutory ELGS are not the EYFS curriculum. This outlined a top- level view of how children develop and learn. Childrens early learning is not neat and orderly, as such child's level of child's lev	EYFS	Development Matters 3&4 Years will learn to:	Development Matters Children in Reception will	Statutory Framework Early Learning Goals
stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc. Extend and create ABAB patterns - stick, leaf, stick, leaf, stick, leaf. Notice and correct an error in a needs to learn and be able tothe cloud is informal other shapes within it, just as numbers can. Continue, copy and create repeating patterns. CompareExplore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally	What a child needs to learn and be able topatterns - stick, leaf, stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then.'numbers can. Continue, copy and create repeating patterns. Compareevens and odds, double facts and how quantities can be distributed equally.	Development Matters and Statutory ELGs are not the EYFS curriculum. This outlined a top- level view of how children develop and learn. Children's early learning is not neat and orderly, as such these are used as a pathway to help practitioners assess each child's level of development and make informed decisions about what a child needs to learn and be able to	See Years will learn to: Recite numbers past 5. Say one number name for each item in order: 1, 2, 3, 4, 5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Fast recognition of up to 3 objects, without having to count them individually ('subitising'). Show 'finger numbers' up to 5. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Experiment with their own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. Compare quantities using language: 'more than', 'fewer than'. Tak about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical arous. Diversand position through words alone - for example, 'The bag is uner the table,'' - with no pointing. Describe a familiar route. Discuss routes and locations, using words like 'in front of and 'beind' Met chaptes to make new ones - an arch, a bigger triangle and cuboids using informal and mathematical series the fue of the table. Combine shapes to make new ones - an arch, a bigger triangle and spender. Liscuss routes and locations, using words like 'in front of and 'beind' Met chaptes to make new ones - an arch, a bigger triangle atter the table. Tak about and identify the patterns around them. For example, stringes of the spender the spen	Count objects, actions and sounds. Count beyond ten. Link the number symbol (numeral) with its cardinal number value. Subitise (recognising quantities without counting) up to 5. Compare numbers Understand the 'one more than/one less than' relationship between consecutive numbers. Explore the composition of numbers to 10. Automatically recall number bonds for numbers 0–5 and some to 10 Select, rotate and manipulate shapes in order to develop spatial reasoning skills. Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. Continue, copy and create repeating patterns. Compare	Learning Goals Number Have a deep understanding of number to 10, including the composition of each number; Subitise (recognise quantities without counting) up to 5; Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Numerical Patterns Verbally count beyond 20, recognising the pattern of the counting system; Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally

EYFS Long Term Plan Autumn

Week 1	Week 2	Week 3		Week 4	Week 5	Week 6	Week Week Weel 7 8 9		Week 9	Week 10	Week 11	Week 12
Getti	ng to ł You	۲now	Phase	Jus	t Like	Me!	lť's	Me 12	2 3!	Ligh	t and l	Dark
Opportunities for settling in, introducing the areas of provision and getting to know the children.		s for ducing ovision now the	Number	Ma Com	tch and S pare Amo	Sort ounts	Repre Com Compo	senting 1 paring 1, 2 sition of	,2&3 2&3 1,2&3	Repres One N	enting Nu to 5. More and	umbers Less.
Key times of day, class routines. Exploring the continuous provision inside and out. Where do things belong? Positional language.		y, class ing the vision Where ong? uage.	Measure, Shape and Spatial Thinking	Compa Expl	are Size, M Capacity oring Pat	Mass &	Circle Positi	s and Tria onal Lang	angles guage	Shape	es with 4 Time	Sides.

EYFS Long Term Plan Spring

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	
Phase	Д	live in 5	5!	Gro	wing 6,	7, 8	Buil	ding 9 8	s 10	
Number	Intr Compar Comp	oducing z ring numb osition of	ero ers to 5 4 & 5	Combi M	6, 7 & 8 ining 2 an laking pair	nounts rs	Counting to 9 & 10 Comparing numbers to 10 Bonds to 10			
Measure, Shape and Spatial Thinking	Com Comp	ipare Mas are Capac	s (2) city (2)	Ler	ıgth & Hei Time	ght	3d-shapes Patterns			

EYFS Long Term Plan Summer

	Week 1	Week 2	Week 3	Week 4	Veek Week Week Week Week Week 4 5 6 7 8 9		Week 9	Week 10	Week 11	Week 12		
Phase	To E	To 20 and Beyond			Then	Now	Find my Pattern			On	the M	ove
Number	Building Numbers Beyond 10 Counting Patterns Beyond 10			Building Numbers Beyond 10 Counting Patterns Beyond 10					g ouping dd	D Uno Pa Rel	eepenir Jerstand tterns a lationsh	ng Jing nd ips
Spatial Thinking	Spatia Ma M	l Reasor Itch, Rota Ianipulat	easoning (1) , Rotate, ipulate Decompose		Spatial Reasoning (3) Visualise and Build			Spatial Reasoning (4) Mapping				

Year 1 Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place	value (within	10)		Number Addit (withi	ion and in 10)		Geometry Shape	Consolidation		
Spring	NumberNumberPlace valueAddition and(within 20)subtraction(within 20)				1	Number Place (withi	value in 50)	Measure Lengt and heigh	ment :h it	Measure Mass and volun	ment 1e	
Summer	Number Multi and d	plicatio ivision	on	Number Fracti	ions	Geometry Position and direction	Number Place (withi	value in 100)	Measurement Money	Measure Time	ment	Consolidation

Year 2 Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	Numbe Plac	e value			Number Addition and subtraction					Geometry Shape			
Spring	Measurement Number Money Multiplicat				on and	divisio	n	Measu Leng and heig	rement Jth ht	Measu Mass capo tem	^{rement} S, Icity ar peratui	nd re	
Summer	Number M Fractions T		Measu Time	e Stat			istics	Geom Posi and dire	^{etry} ition ction	Conso	lidation		

Year 3 Long Term Plan

	Week 1	Week 1 Week 2 Week 3			Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 12		
Autumn	Number Place	value		Number Addit	ion and	d subtr	action	Number Multiplication and division A					
Spring	Number Multi and c	plicatio livision	on B	Measure Leng perin	ement th and neter		Number Fract	ions A		Measure Mass and c	ement apacit	y	
Summer	Number Fract	Number Measurement Fractions B Money		ement :Y	Measurement Time			Geomet Shap	ry e	Statis	stics	Consolidation	

Year 4 Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place	value			Number Addition and subtraction			Measurement Area	Number Multiplication and division A			Consolidation
Spring	Number Measu Multiplication Leng and division B and perin			^{ement} th neter	Number Fract	ions			Number Decir	nals A		
Summer	Number Decir	nals B	Measure Mone	ement 2y	Measurement Time		Consolidation	Geometry Shape		Statistics	Geomet Posit and direc	^{ry} ion tion

Consolidation weeks may move to support the learning needs of the children.

1

Year S Long Term Plan

	Week 1 Week 2 Week 3	Week 4 Week 5	Week 6 Week 7 Week 8	Week 9 Week 10	Week 11 Week 12			
Autumn	Number Place value	Number Addition and subtraction	Number Multiplication and division A	Number Fractions A				
Spring	Number Multiplication and division B	Number Fractions B	Number Decimals and percentages	Measurement Perimeter and area	Statistics			
Summer	Geometry Shape	Geometry Position and direction	Number Decimals	Neasure Neasure Neasure Units Units	ment erting Volume Newsynemia			

Year 6 Long Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place	value	Number Addit multi	ion, sul plicatio	otractic on and o	on, division		Number Nur Fractions A Fra			er Ctions B	
Spring	Ratio		Algeb	ora	Number Decimals decimals and percentages Number Area, perimeter and volume							tics
Summer	Geometr Shape	у Э		Geometry Position and direction	Themed projects, consolidation and problem solving							

Mathematics Rationale

At St Wilfrid's, we are committed to ensuring that all children are mathematically proficient and confident in the use of maths in their everyday lives. To achieve this, we teach for maths mastery designed to ensure all children develop a deep and sustainable understanding of age-appropriate mathematical concepts, which can be built upon in the future. We believe that every child can achieve and encourage the growth mindset 'can do' attitude. Pupils learn to think mathematically to find patterns, connections and relationships between different concepts.

Building on relevant educational research, our maths curriculum has been responsive to the concept of retrieval practice and we understand that children need regular opportunities to revisit prior learning in order to commit mathematical understanding to long term memory.

We teach maths using the White Rose scheme, which is a whole-class, mastery resource. It is based on a smallsteps approach, which means the concepts are broken down so the children can acquire a deep, long-term, secure and adaptable understanding. It has been designed to support and challenge all pupils, and is built on the belief that everyone can learn maths successfully, by building number fluency, confidence and understanding, step by step.

By taking a Concrete, Pictorial, Abstract (CPA) approach, we allows children to tackle concepts in a tangible and accessible way. All ideas are built on previous knowledge and pupils have lots of opportunity to recognise relationships between topics.



Mathematics Rationale

Lessons typically are split into four parts:

Prior Learning (Flashback 4)

Children will review learning from previous lessons, days, units and years to consolidate learning and ensure children know more and remember more

Direct Teaching

Children are taught the key concepts they need to succeed in the lesson. The direct teaching will include elements of concrete, pictorial and abstract where appropriate and prepare the children for their independent, paired or group tasks.

Task (Do it, Twist it, Deepen

Children to be provided with a variety of questions which increase in difficulty to apply their understanding. These will then extend to problem solving and reasoning where children demonstrate their understanding. Kagan strategies may be used at this point to support understanding and mastery.

Plenary

Children's understanding of the knowledge taught in the lesson is assessed and progress reviewed. Assessment for learning takes place throughout the maths lesson and this is used to adapt future teaching.



Maths Rationale

When we plan our lessons and sequences of lessons we structure the learning so that all pupils work through new content together as a whole group. Although we do not differentiate the learning task by reducing the level of difficulty for certain groups, the questioning and scaffolding that individual children receive in class will differ.

Teachers allow time for children to fully understand, explore and apply ideas using Kagan strategies, rather than accelerate through new topics. Pupils' difficulties and misconceptions are identified through immediate formative assessment and addressed with rapid intervention. This approach enables pupils to truly grasp a concept.

Fluency comes from deep knowledge and practice. At early stages, explicit teaching of multiplication tables is important in the journey towards fluency and contributes to quick and efficient mental calculation. We teach multiplication both through progressive teaching sequences and through multiplication chanting and recall of the times tables appropriate for each year group alongside 66/99 Club assessments to monitor progress.

At we teach multiplication tables in the following year groups so that children are proficient in the rapid recall of all multiplication tables up to 12×12 by the end of Year 4

- Year 2: 2s, 5s and 10s
- Year 3: 3s, 4s and 8s
- Year <mark>4: 6</mark>s, 7s, 9s, 11s and 12s.

We also use Times Tables Rockstars as tools to help pupils develop fluency in number facts and multiplication tables in school and at home.



Maths Rationale

Maths in Early Years

Our EYFS at Guardian Angels provides an engaging and encouraging climate for children's early encounters with mathematics. This develops their confidence and their ability to understand and use maths and is the foundation for their future maths learning.

We are passionate about the teaching of early mathematics. We actively introduce mathematical concepts, methods, and language through a variety of engaging and stimulating practical experiences, both within the classroom and in the outside environment. We guide children to see connections of ideas within maths as well as with other subjects, developing their mathematical knowledge throughout the day and across the curriculum. We encourage children to communicate, explaining their thinking as they interact with maths in a deep and sustained way.

We ensure that children have sufficient practice to be confident in using and understanding numbers which provides a strong basis for more complex learning later on. Focus is placed on the use of concrete resources to develop deep structural knowledge and the ability to make connections, with the aim of ensuring that what is learnt is sustained over time.