

# Park Grove Primary Academy

## Long-term Maths Plan

### 2022-2023

	1	2	3	4	5	6	7	8	9	10	11	12	13
MN				<b>Mastering Number Weeks 1-5</b>					<b>Mastering Number Weeks 6-10</b>				
Main Teaching Input  (Developmental Objective Links)	<p>Number Songs with actions and puppets</p> <p>Measure Days of the week</p> <p>My school day</p> <p>Weekly Planning Ideas</p>	<p>Number Songs with actions and puppets</p> <p>Measure Days of the week</p> <p>My school day</p> <p>Weekly Planning Ideas</p>	<p>Number Number sense Number 1 (Cardinality)</p> <p>Weekly Planning Ideas</p>	<p>Number Number sense Number 2 (Discuss one more) (Cardinality)</p> <p>Weekly Planning Ideas</p>	<p>Number Number sense Number 3 (Discuss one more) (Cardinality)</p> <p>Weekly Planning Ideas</p>	<p>Number Number sense Number 4 (Discuss one more) (Cardinality) (Double)</p> <p>Weekly Planning Ideas</p>	<p>Number Number sense Number 5</p> <p>Weekly Planning Ideas</p> <p>Calculation Finding one more</p>	<p>Number Ordering Numbers 1-5</p> <p>Weekly Planning Ideas</p> <p>Calculation Finding one less</p>	<p>Calculation Every number can be made from one (Composition)</p> <p>Weekly Planning Ideas</p>	<p>Calculation Number composition (Part, part, whole)</p> <p>Weekly Planning Ideas</p>	<p>Calculation Number composition (Part, part, whole)</p> <p>Weekly Planning Ideas</p> <p>Calculation Adding two groups together</p>	<p>Geometry Shapes, Shapes, Everywhere!</p> <p>2D Shape</p> <p>Weekly Planning Ideas</p>	<p>Pattern Can you see my pattern?</p> <p>Identifying repeating patterns</p> <p>Weekly Planning Ideas</p>
Main Teaching Input  (Developmental Objective Links)	Cons	<p>Number Subitising (10 Black dots)</p>	<p>Number Number sense Number 6</p> <p>Calculation and Division Introduce doubling</p>	<p>Calculation Addition from counting on</p>	<p>Number Number sense Number 7</p>	<p>Number Number sense Number 8</p> <p>Multiplication and Division Introduce halving</p>	<p>Multiplication and Division Doubling and halving</p>	<p>Pattern Creating repeating patterns</p>	<p>Number Number sense Number 9</p>	<p>Number Number sense Number 10</p>	<p>Number Number sense Number 10</p> <p>Number Odd and Even</p>	<p>Calculation Number bonds to ten.</p>	<p>Geometry 3D Shape</p>
Main Teaching Input  (Developmental Objective Links)	<p>Geometry Spatial awareness/positional language</p>	<p>Number Counting patterns 10-20</p>	<p>Number Counting patterns beyond 20.</p>	<p>Calculation Addition from counting on</p>	<p>Calculation Subtraction from counting back</p>	<p>Measure Length, height and distance</p>	<p>Measure Weight and capacity</p>	<p>Calculation Sharing</p>	<p>On the move Extended problem solving and reasoning Spatial reasoning</p>		<p>Consolidation</p>		

# Year 1

	1	2	3	4	5	6	7	8	9	10	11	12	13
C1	<b>Unit 1</b> Previous Reception experiences and counting within 100				<b>Unit 2</b> Comparison of quantities and part-whole relationships			<b>Unit 3</b> Numbers 0 to 5		<b>Unit 4</b> Recognise, compose, decompose and manipulate 2D and 3D shapes			<b>Unit 5</b> Numbers 0 to 10
MN	Mastering Number weeks 1-5						Mastering Number weeks 6-10						
C2	<b>Unit 5</b> Numbers 0 to 10		<b>Unit 6</b> Additive structures				<b>Unit 7</b> Addition and subtraction facts within 10			<b>Unit 8</b> Numbers 0 to 20			
MN	Mastering Number weeks 11 - 15						Mastering Number weeks 16 - 20						
C3	<b>Unit 9</b> Unitising and coin recognition					<b>Unit 10</b> Position and direction	<b>Unit 11</b> Time		<b>*Unit 12*</b> Fractions		<b>*Unit 13*</b> Measure		
MN	Mastering Number weeks 21 - 25					Mastering Number weeks 26 -31							

# Year 2

Y2	1	2	3	4	5	6	7	8	9	10	11	12	13
C1	Unit 1 Numbers 10 to 100				Unit 2 Calculations within 20			Unit 3 Fluently add and subtract within 10	Unit 4 Addition and subtraction of two-digit numbers (1)		Unit 5 Introduction to multiplication		
	Mastering Number Weeks 1 - 5						Mastering Number Weeks 6 - 10						
C2	Unit 5 Introduction to multiplication	Unit 6 Introduction to division structures		Unit 7 Shape	Unit 8 Addition and subtraction of two-digit numbers (2)			Unit 9 Money	Unit 10 Fractions		Unit 11 Time	Unit 12 Position and direction	
	Mastering Number Weeks 11 - 15						Mastering Number Weeks 16 - 20						MN Weeks 21 - 26
C3	Unit 13 Multiplication and division – doubling, halving, quotative and partitive division			Unit 14 Sense of measure – capacity, volume, mass		SATS	*Unit 15* Cross Curricular Statistics				*Unit 16* Deeper Application and Consolidation Year 3 Ready		
	Mastering Number Weeks 21 - 26						Mastering Number Weeks 27 - 31						

Y3	1	2	3	4	5	6	7	8	9 – NTS?	10	11	12	13
C1	Unit 1		Unit 2										
	Adding and subtracting across 10		Numbers to 1,000										
TT	Consolidate Addition/Subtraction Facts within 10 Adding 1, Adding 2, Adding 0, Bonds to 10.			Within 10 Double 1-5	Within 10 Add in Double 10	Across 10 Add in double 6	Across 10 Add in double 7	Across 10 Add in double 8	Across 10 Add in double 9	Near Doubles (+/-1)	Near doubles (+/- 2)	Ones without a family (5+8, 8+5, 3+6, 6+3)	All Addition/Subtraction facts of numbers within 10
C2	Unit 3 Right angles		Unit 4 Manipulating the additive relationship and securing mental calculation  2 times table Intro Lesson 1    2 times table Intro Lesson 2 Commutativity    2 times table Intro Lesson 3 Division				Unit 5 Column addition			Unit 6 2, 4, 8 times tables 5 times table Standard Intro Lesson		Unit 7 Column subtraction	
	All Addition/Subtraction facts of numbers within 10	Doubles 1-10		2 times table (multiplier first)	2 times table (multiplier first or second)	2 times table (division facts added in)	2 times table	2 times table	5 times table (2x5 to 6x 5)	5 times table (2x5 to 6x 5)	5 times table (7x5 to 9x5)	5 times table (all)	5 times table (all)
C3	Unit 8 Unit fractions 4 times table Standard Intro Lesson					Unit 9 Non-unit fractions				Unit 10 Parallel and perpendicular sides in polygons		Unit 11 Time	
	5 times table and 2 tt	5 times table and 2 tt	5 times table and 2 tt	5 times table and 2 tt	4 times table (2 x4 to 6x4)	4 times table (7 x4 to 9x4)	4 times table all facts	2, 4, 5tt facts	2, 4, 5tt facts	2, 4, 5tt facts	2, 4, 5tt facts	2, 4, 5tt facts	10 tt brush up!

	1	2	3	4	5	6	7	8	9	10	11	12	13
C1	Unit 1			Unit 2				Unit 3		Unit 4			
	Review of column addition and subtraction			Numbers to 10,000				Perimeter and Right Angles		3, 6, 9 times tables			
				8 times table Standard Intro Lesson					3 times table Standard Intro Lesson				
TT	Recap Year 3			8 times table			All 8 times table			3 times table		3 times table plus all previous facts	
	All Addition/Subtraction facts within 102,5,4 tts			5 new facts (8x3, 8x6, 8x7, 8x8, 8x9)			Plus all previously learnt facts			4 new facts (3x3, 6x3, 7x3, 9x3)			
C2	Unit 4	Unit 5		Unit 6				Unit 7		Unit 8	Unit 9		
	3, 6, 9 times tables	7 times table and patterns		Understanding and manipulating multiplicative relationships				Coordinates		Review of fractions	Fractions greater than 1		
			6 times table Standard Intro Lesson					9 times table Standard Intro Lesson					
TT	All 3 times table		6 times table			All 6 times table			9 times table	All 9 times table		7 times tables	7 times tables
	Plus all previously learnt facts		3 new facts (6x6, 7x6, 9x6)			Plus all previously learnt facts			2 new facts (9x7, 9x9)	Plus all previously learnt facts		1 new fact (7x7)	All facts now learnt
C3	Unit 9			Unit 10		Unit 11	Unit 12		MTC	*Unit 13*			
	Fractions greater than 1			Symmetry in 2D shapes		Time	Division with remainders			Transformations			
				11 and 12 times table Standard Intro Lesson									
TT	All times tables up to 9x9			All to 9x9 practice for some			All in MTC for some			MTC	All to 9x9 practice for some and All in MTC for some		



	1	2	3	4	5	6	7	8	9	10	11	12	13
C1	Unit 1 and Unit 10						Unit 2 Multiples of 1,000	Unit 3 Numbers up to 10,000,000				Unit 4 Draw, compose and decompose shapes	
	Calculating using knowledge of structures (1)							Calculating using knowledge of structures (2)					
			Unit 11 - Solving problems with two unknowns					Unit 12 - Order of operations					
C2	Unit 4 Draw, compose and decompose shapes	Unit 5				Unit 6 Area, perimeter, position and direction		Unit 7					
		Multiplication and division						Fractions and percentages					
						Unit 13 - Mean average							
C3	Unit 8 Statistics	Unit 9		SATS	Unit 10	Unit 11	Unit 12	Unit 13	*Unit 14* Further Application in real life contexts Bespoke inputs Further Investigations Becoming Year 7 Ready				
		Ratio and proportion			Calculating using knowledge of structures (2)	Solving problems with two unknowns	Order of operations	Mean average					