

St. Margaret's C.E. Junior School

Year 3 Maths Curriculum Overview



AUTUMN	SPRING	SUMMER		
Number: Place value	Number: multiplication and division B	Number: fractions		
 Represent numbers to 100 (NPV 2) (R) 	 Recall and use multiplication facts for the 2, 5 and 10 			
 Tens & ones using addition (NPV 2) (R) 	multiplication tables, including recognising odd and	 Add and subtract fractions with the same denominator 		
 Number line to 100 (NPV 4) (R) 	even numbers (Y2)	within one whole (for example,		
Represent numbers to 100	Write and calculate mathematical statements for	5/7 + 1/7 = 6/7) (F 4)		
Partition numbers to 100	multiplication and division using the multiplication	Add fractions		
Number line to 100- *(PS) Logical reasoning	tables that they know, including for two-digit numbers	Subtract fractions		
Hundreds	times one-digit numbers, using mental and progressing	Partition the whole		
Represent numbers to 1,000- *(PS) Open-	to formal written methods (MD 1)	• Compare and order unit fractions, and fractions with the		
ended/acting out	Multiples of 10	same denominators (F 3)		
Partition numbers to 1,000	Related calculations	 Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small 		
Flexible partitioning of numbers to 1000	Reasoning about multiplication	denominators (F 2)		
Hundreds, tens and ones	Multiply a 2-digit number by a 1-digit number – no	 Unit fractions of a set of objects 		
 Recognise the place value of each digit in a three-digit 	exchange	 Non-unit fractions of a set of objects 		
number (hundreds, tens, ones) (NPV 2) *(PS) Build	Multiply a 2-digit number by a 1-digit number –	 Reasoning with fractions of an amount 		
/logical reasoning/drawing a table	with exchange	 Solve problems that involve all of the above 		
 Read and write numbers up to 1,000 in numerals and in 	Link multiplication and division			
words	Divide a 2-digit number by a 1-digit number – no			
 Find 10 or 100 more or less than a given number (NPV 3) 	exchange			
Find 1, 10 or 100 more or less	Divide a 2-digit number by a 1-digit number –			
 Identify, represent and estimate numbers using different 	flexible partitioning			
representations (NPV 3) (NPV 4)	Divide a 2-digit number by a 1-digit number – with			
Number line to 1,000	remainders			
Estimating on a number line to 1,000	 Solve problems, including missing number problems, 			
 Compare and order numbers up to 1,000 (NPV 3) 	involving multiplication and division, including positive			
Compare numbers to 1,000	integer scaling problems and correspondence problems			
Order numbers to 1,000	in which n objects are connected to m objects (MD 1)			
 Count from 0 in multiples of 4, 8, 50 (NPV 4) and 100; 	Scaling Step (NF 3)			
find 10 or 100 more or less than a given number	How many ways?			
Count in 50s	 Solve problems involving addition, subtraction, 			
 Solve number problems and practical problems 	multiplication and division and a combination of these,			

including understanding the meaning of the equals sign

involving these ideas	including understanding the meaning of the equals sign	
AUTUMN	SPRING	SUMMER
Number: addition and subtraction	Measurement: Length and Perimeter	Measurement: money
Apply number bonds within 10	• Measure, compare, add and subtract: lengths	Pounds and pence
Add and subtract 1s	(m/cm/mm) (NPV 1) (NPV 4) (AS 2)	Convert pounds and pence
Add and subtract 10s	Measure in metres and centimetres	Add money
Add and subtract 100s	Measure in millimetres	Subtract money
 Add & subtract 2 digit nos crossing 10 (AS 2) (R) (NF 1) 	Measure in centimetres and millimetres	Find change
Spot the pattern	Metres, centimetres and millimetres	 Add and subtract amounts of money to give change,
Add 1s across a 10	Equivalent lengths (metres and centimetres)	using both £ and p in practical contexts (NPV 2) (AS 2)
Add 10s across a 100	Equivalent lengths (centimetres and millimetres)	(AS 3)
Subtract 1s across a 10	Compare lengths	
Subtract 10s across a 100	Add lengths Subtract lengths	Measurement: time
Make connections	• Measure the perimeter of simple 2-d shapes (AS 2)	• Tell and write the time from an analogue clock, including
 Add and subtract numbers mentally, including: a three- 	What is perimeter?	using Roman numerals from I to XII, and 12-hour and 24-
digit number and ones, a three-digit number and tens, a	Measure perimeter	hour clocks
three-digit number and hundreds (AS 2)	Calculate perimeter	• Estimate and read time with increasing accuracy to the
 Add and subtract numbers with up to three digits, using 		nearest minute; record and compare time in terms of
formal written methods of columnar addition and		seconds, minutes and hours;
subtraction (AS 2)		use vocabulary such as o'clock, am/pm, morning,
Add two numbers (no exchange)		afternoon, noon and midnight *(PS) Logical
Subtract two numbers (no exchange)		reasoning/organised list/trial & improvement
Add two numbers (across a 10)		Roman numerals to 12
Add two numbers (across a 100)		Tell the time to 5 minutes
Subtract two numbers (across a 10)		Tell the time to the minute
Subtract two numbers (across a 100)		Read time on a digital clock
Add 2-digit and 3-digit numbers		Use am and pm
Subtract a 2-digit number from a 3-digit number		• Know the number of seconds in a minute and the number
 Estimate the answer (AS 2) to a calculation and use 		of days in each month, year and leap year
inverse operations to check answers (AS 3)		• Compare durations of events (for example to calculate the
Complements to 100 (AS 1)		time taken by particular events or
Estimate answers		tasks)
Inverse operations		Years, months and days
Make decisions		Days and hours
 Solve problems, including missing number problems, 		Hours and minutes – use start and end times
using number facts, place value, and more complex		Hours and minutes - use durations
addition and subtraction (AS 2)		Minutes and seconds
		Units of time
		Solve problems with time

AUTUMN	SPRING	SUMMER
Number: multiplication and division A • Multiplication using arrays (MD 1) (R) • 2x & 5x tables (MD 1) (R) *(PS) Logical reasoning • Consolidate 2x, 4x, 8x tables (MD 1) (R) > Multiplication - equal groups > Use arrays > Multiples of 2 > Multiples of 5 and 10 > Sharing and grouping • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables > Multiply by 3 > Divide by 3 > The 3 times-table > Multiply by 4 > Divide by 4 > The 4 times-table > Multiply by 8 > Divide by 8 > The 8 times-table > Multiply by 8 > Divide by 8 > The 2, 4 and 8 times-tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (MD 1) • Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems	Number: Fractions • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (F 1) > Understand the denominators of unit fractions • Compare and order unit fractions, and fractions with the same denominators (F 1) (F 2) (F 3) > Compare and order unit fractions • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators (F 1) (F 2) > Understand the numerators of non-unit fractions > Understand the numerators of non-unit fractions > Understand the whole > Compare and order non-unit fractions • Understand the whole > Compare and order non-unit fractions • Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 (F 2) (F 3) (NF 3) > Fractions and scales > Fractions on a number line- *(PS) Logical reasoning/drawing a diagram > Count in fractions on a number line • Recognise and show, using diagrams, equivalent fractions with small denominators (F 1) (NF 3) > Equivalent fractions as bar models • Solve problems that involve all of the above	Geometry: Properties of Shape• Recognise angles as a property of shape or a description of a turn• Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; (G 1)• Identify whether angles are greater than or less than a right angle (G 1)• Turns and angles• Right angles• Compare angles• Identify horizontal and vertical lines and pairs of perpendicular and parallel lines (G 2)• Measure and draw accurately• Horizontal and vertical• Parallel and perpendicular• Draw 2D shapes and make 3D shapes using modelling materials (G 2)• Recognise and describe 2-D shapes• Draw polygons• Recognise and describe 3-D shapes• Make 3-D shapes
in which n objects are connected to m objects (MD 1)	Measurement: mass and capacity	Statistics: pictograms and bar charts
	 Measure: mass (kg/g) Use scales Measure mass in grams Measure mass in kilograms and grams Equivalent masses (kilograms and grams) Compare: mass (kg/g) (R) Add and subtract: mass (kg/g) Compare mass 	 Interpret and present data using bar charts, pictograms and tables Interpret pictograms Draw pictograms Interpret bar charts Draw bar charts Collect and represent data Two-way tables

 Add and subtract mass Measure: volume/capacity (I/mI) Measure capacity and volume in millilitres Measure capacity and volume in litres and millilitres Compare: volume/capacity (I/mI) (R) Equivalent capacities and volumes (litres and millilitres) Compare capacity and volume Add and subtract: volume/capacity (I/mI) Add and subtract: capacity and volume 	 Solve one-step and two-step questions [for example, 'how many more?' and 'how many fewer?'] using information presented in scaled bar charts and pictograms and tables (R)
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White Rose Maths Hub & Power Maths schemes of learning are used to support medium term planning and as exemplification for maths objectives.

R- RECAP of previous objectives

WRH Small Steps

Small steps can be combined into one lesson.

* (PS) PROBLEM SOLVING opportunities

DfE- Ready to progress criteria

NF- Number Facts NPV- Number & Place Value AS- Addition & Subtraction MD- Multiplication & Division F- Fractions G- Geometry

REMEMBER to complete **pre & post learning assessments.**

Only move on when the majority of pupils are secure in the objective.