

St. Margaret's C.E. Junior School

Year 4 Maths Curriculum Overview



AUTUMN	SPRING	SUMMER
 Number: place value Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (NPV 1) (NPV 2) Represent numbers to 1,000 Partition numbers to 1,000 Number line to 1,000 (R) (NPV 4) Thousands Represent numbers to 10,000 Partition numbers to 10,000 Partition numbers to 10,000 Flexible partitioning of numbers to 10,000 Find 1,000 more or less than a given number (NPV 3) Find 1, 10, 100, 1,000 more or less Number line to 10,000 Estimate on a number line to 10,000 Order and compare numbers beyond 1,000 (NPV 3) Compare numbers to 10,000 Order numbers to 10,000 Versimate on a number line to 10,000 Order numbers to 10,000 Read roman numerals to 100 (i to c) and know that over time, the numeral system changed to include the concept of zero and place value (NPV 3) Round any number to the nearest 10, 100 or 1,000 (NPV 3) Identify, represent and estimate numbers using different representations (NPV 2) Count backwards through zero to include negative numbers (NPV 3) (YEAR 5) Solve number and practical problems that involve all 	Number: multiplication and division • Recall and use multiplication and division facts for multiplication tables up to 12 × 12 (x and divide by 6, 9, 7) (NF 1) (NF 2) (MD 2) • Count in multiples of 6, 7, 9, 25 (NPV 3) and 1,000 • Recognise and use factor pairs and commutativity in mental calculations (MD 1) (MD 2) • Factor pairs • Use factor pairs • Use factor pairs * (PS) Drawing diagrams • Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths (MD 1) • Convert between different units of measure [for example, kilometre to metre] • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (Y5) (NPV 1) (NF 3) • Multiply by 10 • Multiply by 10 • Divide by 100 • Related facts – multiplication and division • Related facts – multiplication and division • Related facts – multiplication and division • Informal written methods for multiplication • Multiply two-digit and three-digit numbers by a one-digit	 Decimals Recognise and write decimal equivalents of any number of tenths or hundredths Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Make a whole with tenths Make a whole with hundredths Compare numbers with the same number of decimal places up to two decimal places Partition decimals Flexibly partition decimals Order decimals Order decimals Round decimals with one decimal place to the nearest whole number Recognise and write decimal equivalents to 1/4, 1/2, ¾ Solve simple measure and money problems involving fractions and decimals to two decimal places Halves and quarters as decimals

of the above and with increasingly large positive	number using formal written layout (MD 2) (MD 3)	
numbers	Multiply a 2-digit number by a 1-digit number	
*(PS) Acting out/working backwards	Multiply a 3-digit number by a 1-digit number	
	• Divide 2 digits by 1 digit (MD 3) (R)	
	• Use place value, known and derived facts to multiply and	
	divide mentally, including: multiplying by 0 and 1;	
	dividing by 1; multiplying together three numbers (MD 2)	
	Divide a 2-digit number by a 1-digit number (1)	
	Divide a 2-digit number by a 1-digit number (2)	
	Divide a 3-digit number by a 1-digit number	
	• Solve problems involving multiplying and adding, including	
	using the distributive law to multiply two-digit numbers by	
	one digit, integer scaling problems and harder	
	correspondence problems such as n objects are connected	
	to m objects (MD 3) *(PS) Organised list	
	Correspondence problems	
	Efficient multiplication	

AUTUMN	SPRING	SUMMER
 Number: addition and subtraction Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Add and subtract 1s, 10s, 100s and 1,000s Add up to two 4-digit numbers - no exchange Add two 4-digit numbers - one-exchange Add two 4-digit numbers - more than one exchange Subtract two 4-digit numbers - no exchange Subtract two 4-digit numbers - more than one exchange Subtract two 4-digit numbers - more than one exchange Efficient methods of addition/subtraction Efficient subtraction Efficient subtraction Estimate and use inverse operations to check answers to a calculation Estimate answers Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why *(PS) Looking for patterns/working backwards/drawing a diagram Checking strategies 	Or NING Measurement: length and perimeter • Convert between different units of measure [for example, kilometre to metre; hour to minute] Measure in kilometres and metres Equivalent lengths (kilometres and metres) Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres (G 2) (R) Add & subtract lengths (R) Equivalent lengths- m, mm, cm (R) Perimeter of a rectangle Perimeter of rectilinear shapes Find missing lengths in rectilinear shapes Calculate perimeter of rectilinear shapes Perimeter of regular polygons Perimeter of polygons * (PS) Working backwards/drawing a table 	Solutivitation Measurement: Money • Convert pounds & pence (R) • Add & subtract money (R) • Find change (R) • Estimate, compare and calculate different measures, including money in pounds and pence • Write money using decimals • Convert between pounds and pence • Convert between pounds and pence • Convert between pounds and pence • Compare amounts of money • Estimate with money • Calculate with money • Calculate with money • Calculate with money • Solve simple measure and money problems involving fractions and decimals to two decimal places * (PS) Trial & improvement/Estimation • Solve problems with money Measurement: Time • Telling the time to 5 mins & to the nearest min (R) • Using am/pm & 24hr clock (R) • Convert between different units of measure [hour to minute] • Read, write and convert time between analogue and digital 12- and 24-hour clocks • Years, months, weeks and days • Hours, minutes and seconds • Convert between analogue and digital times • Convert to the 24-hour clock • Convert from the 24-hour clock

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Measurement: Area	Fractions	Geometry: properties of shapes
 Find the area of rectilinear shapes by counting squares What is area? Counting squares Make shapes Estimate, compare and calculate different measures Compare area *(PS) Open-ended 	 Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3) Unit & non-unit fractions (F 1) (R) Count in tenths (F 1) (R) Understand the whole Count beyond 1 Partition a mixed number Number lines with mixed numbers Compare and order mixed numbers Understand improper fractions Convert mixed numbers to improper fractions (F 2) Convert mixed numdeths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten Recognise and show, using diagrams, families of common equivalent fractions (F 1) (R) Equivalent fractions on a number line Equivalent fractions with the same denominator (F3) (R) Add two or more fractions Subtract from whole amounts Subtract from mixed numbers Subtract from mixed numbers Subtract from whole amounts Subtract from mixed numbers Subtract from mixed numbers Subtract from mixed numbers Subtract from mixed numbers Madd fractions and mixed numbers Subtract from whole amounts Madd fractions and mixed numbers Subtract from whole amounts Subtract from whole amounts Subtract from mixed numbers 	 Identify acute and obtuse angles and compare and order angles up to two right angles by size (G 2) Understand angles as turns Identify angles Compare and order angles Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes (G 2) Triangles Quadrilaterals Polygons Identify lines of symmetry in 2D shapes presented in different orientations (G 3) Lines of symmetry Complete a simple symmetric figure with respect to a specific line of symmetry (G 3) Complete a symmetric figure

Number: multiplication and division Decimals Statistics
 Recall multiplication and division facts for multiplication tables up to 12 × 12 (NF 1) (NF 2) (MD 1) (MD 2) Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3) Recognise and write decimal equivalents of any number of tenths or hundredths Multiply by 3 Recognise and write decimal equivalents of any number of tenths or hundredths Tenths as factions Tenths as decimals Tenths on a place value chart Tenths on a number line Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten Divide a 1-digit number by 10 Divide a 1-digit number by 10 Count up and down in hundredths; recognise that hundredths as factions Hundredths as decimals Hundredths as factions Hundredths as decimals Hundredths as deci

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.