

Whole School MATHS Curriculum

TERM (WEEKS)	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
ASPIRATIONS	BELONGING	CURIOSITY & CREATIVITY	HEROES	SPIRIT OF ADVENTURE	LEADERSHIP & RESPONSIBILITY	FUN and EXCITEMENT
FOCUS						
YEAR 3	LOCATION, LOCATION, LOCATION	STONES AND BONES	AWESOME ANCIENT EGYPTIANS	AVENGERS ASSEBMLE!	PLANT POWER	ALL THE WORLD'S A STAGE
	Number sense and		Multiplication and division	Time	Angles and Shape	Securing multiplication
	exploring calculation	Addition and subtraction	Multiplication and division	•Tell, record, write and order	•Identify angles including	and division
	<u>strategies</u>	•Develop and use a range	facts for 2, 3, 4, 5, 6, 8 and	the time analogue and	right angles and recognise	•Recall and use
	 Read, write, order and 	of mental	10 •Multiplicative structures:	digital	as a quarter of a turn	multiplication and
	compare numbers to 100	calculation strategies	equal groups/parts, change	•12-hour, a.m., p.m.	•Identify and draw parallel	division facts for 6 and
	Calculate mentally using	•Illustrate and explain	and comparison,	Measure, calculate and	and perpendicular lines	times table
	known facts, round and	formal written	correspondence problems	compare durations	Draw/make, classify and	
	adjust, near doubles,	methods – column method	•Relationships:		compare 2-D and 3-D	Exploring calculation
	adding on to find the	Laurette and a seturate a	commutativity and inverse	Fractions	shapes	strategies and place
	difference •Derive new facts from a	<u>Length and perimeter</u> •Measure, draw and	Deriving multiplication and	Part-whole relationships Fractions as part of a whole	Measure the perimeter	value • Add and subtract
	known fact	compare lengths	division facts	or a whole set and as a	Measures	mentally
	Place value	Add and subtract	•Multiply and divide by 10	number	•Read scales with different	•Find 10, 100 and 1000
	•Read, write, represent,	lengths	and 100	•Add, subtract, compare	intervals when measuring	more or less
	partition, order and	Calculate perimeter	Multiply a 2-digit number	and order fractions	mass and volume	Order and compare
	compare 3-digit numbers		by 2, 3, 4, 5 and		Weigh and compare	beyond 1000
	•Find 10 and 100 more or		corresponding division		masses and capacities with	•Round numbers
	less		situations		mixed units	
	 Round to the nearest 		Divide 2-digit by a 1-digit		•Estimate mass and	
	multiple of 10 and 100				capacity	
	<u>Graphs</u>					
	 Measure, draw and 					
	compare lengths					
YEAR 4	DESTINATION EUROPE	ROCK BAND	TIME COP	I'M A CHILD, GET ME OUT OF HERE!	WELCOME TO HONEYDUKES!	ALL THE WORLD'S A STAGE
	Reasoning with large	Multiplication and division	Securing multiplication facts	Decimals Decimals	Solving measures and	Position and direction
	numbers	Distributive property	•Identify and explore	•Decimal equivalents to	money problems	Describe and plot
	•4-digit place value. Read,	including multiplying three	patterns in multiplication	tenths, quarters and halves	•Convert units of measure	using coordinates
	write, represent, order and	1-digit numbers	tables including 7 and 9	Compare and order	•Select appropriate units to	•Describe translations
	compare	Mental multiplication and		numbers with same number	measure	
	•Find 10, 100 or 1000 more	division strategies using	<u>Fractions</u>	of decimal places	 Use strategies to 	Reasoning with pattern
	or less	place value and known	Explore different	Multiply and divide by 10	investigate problems: trial	and sequences
	•Round numbers to the	and derived facts	interpretations and	and 100 including decimals	and improvement,	•Roman numerals up to
	nearest 10, 100 or 1000	•Short multiplication and	representations of fractions	A	organising using lists and	100
	A delition and subtraction	division	• Equivalent fractions	Area and Perimeter	tables, working	•Place value of other
	•Select appropriate	Discrete and continuous	•Represent fractions greater than one as mixed number	Perimeter of rectangles and rectilinear shapes	systematically	number systems •Number sequences
	•select appropriate strategies to add and	<u>Discrete and continuous</u> data	and improper fractions	Area of rectangles and	Shape and symmetry	•Number sequences and patterns
	_		Add and subtract fractions	rectilinear shapes	•Classify, compare and	ана рапень
	subtract	I • Read Interpret and				
	subtract • Illustrate and explain	•Read, interpret and construct pictograms, bar	with the same denominator	•Investigate area and	order angles	3-D shape

	subtraction strategies including column method with regrouping	Compare tables, pictograms and bar charts	including fractions greater than one Time • Analogue to digital, 12-hour and 24-hour • Convert between units of time		Compare and classify 2-D shapes Identify lines of symmetry	•Use understanding of 3-D shapes •Identify 3-D shapes from 2-D representations
YEAR 5	JOURNEY TO THE AMAZON	MISSION: SPACE	SAXON SETTLERS AND VIKIING INVADERS	THE CIRCLE OF LIFE	THE GREAT OAKHILL SEWING BEE	ALL THE WORLD'S A STAGE
	Reasoning with large whole integers Read, write, order and compare numbers up to one million Round numbers within one million to the nearest multiple of powers of ten Read Roman numerals up to M Integer addition and subtraction Use rounding to estimate Use a range of mental calculation strategies to add and subtract integers Illustrate and explain the written method of column addition and subtraction Select efficient calculation strategies Line graphs and timetables Complete, read and interpret data presented in line graphs Read and interpret timetables including	Multiplication and division •Identify multiples and factors •Investigate prime numbers •Multiply and divide by 10, 100 and 1000 (integers) •Derived facts •Illustrate and explain formal multiplication and division strategies such as short and long •Use a range of mental calculation strategies Perimeter and area •Investigate area and perimeter of rectilinear shapes •Estimate area of non rectilinear shapes	Fractions and decimals Read, write, order and compare decimals Round decimals to the nearest whole number Represent, identify, name, write, order and compare fractions (including improper and mixed numbers) Calculate fractions of amounts Angles Classify, compare and order angles Measure a draw angles with a protractor Understand and use angle facts to calculate missing angles	Fractions and percentages Add, subtract fractions with denominators that are multiples of the same number Multiply fractions (and mixed numbers) by a whole number Explore percentage, decimal, fractions equivalence Iransformations Coordinates in all four quadrants Translation and reflection Calculate intervals across zero as a context for negative numbers	Converting units of measure Convert between metric units of length, mass and capacity and units of time Know and use approximate conversion between imperial and metric Calculating with whole numbers and decimals Mental strategies to add and subtract involving decimals Formal written strategies to add, subtract and multiply involving decimals Multiply and divide by 10, 100 and 1000 involving decimals Derive multiplication facts involving decimals	2-D and 3-D shape • Classify 2-D shapes and reason about regular and irregular polygons • Properties of diagonals of quadrilaterals • Classify 3-D shapes • 2-D representations of 3-D shapes. Volume • Use cube numbers and notation • Estimate volume • Convert units of volume Problem solving • Negative numbers and calculating intervals across zero • Calculating the mean • Interpret remainders • Investigate numbers: consecutive, palindromic, multiples
YEAR 6	calculating intervals RING OF FIRE	THE OLD TOY SHOP	WW 2 BRITAIN AT WAR!	AT THE HEART OF THE JUNGLE	THANK YOU, YOUR MAJESTY	ALL THE WORLD'S A STAGE
	Integers and decimals Represent, read, write, order and compare numbers up to ten million Round numbers, make estimates and use this to solve problems in context Solve multi-step problems	Calculation problems • Understand the use of brackets • Use knowledge of the order of operations to carry out calculations • Generate and describe linear number sequences	Coordinates and shapes • Draw a range of geometric shapes using given dimensions and angles • Describe, draw, translate and reflect shapes on a co-ordinate plane • Recognise and construct	Percentage and statistics • Calculate and compare percentages of amounts • Connect percentages with fractions • Explore the equivalence of fractions, decimals and percentages	REVISION OF KS2 CURRICULUM	REVISION OF KS2 CURRICULUM Problem Solving and Investigative skills

involving addition and subtraction Multiplication and division Identify and use properties of number, focusing on primes Multiply larger integers	• Deepen understanding of equivalence • Order, simplify and	3-D shapes •Name and illustrate parts of a circle Fractions •Represent multiplication involving fractions •Multiply two proper fractions •Divide a fraction by an integer	Calculate the mean Construct and interpret lines graphs and pie charts Compare pie charts Proportion problems Use fractions to express proportion	
and decimal numbers using a range of strategies • Divide integers by 1-digit and 2-digit numbers representing remainders appropriately • Illustrate and explain formal multiplication and division strategies	compare fractions, including those greater than one •Recall equivalence between common fractions and decimals •Find decimal quotients using short division •Add and subtract fractions Missing angles and length •Compare and classify a range of geometric shapes •Use angle facts to	Decimals and measure Use, read, write and convert between standard units of measures; length, mass, time, money and volume as well as imperial units • Calculate the area of parallelograms and triangles • Calculate, estimate and compare the volume of cuboids	Identify ratio as a relationship between quantities and as a scale factor Unequal sharing involving ratio	