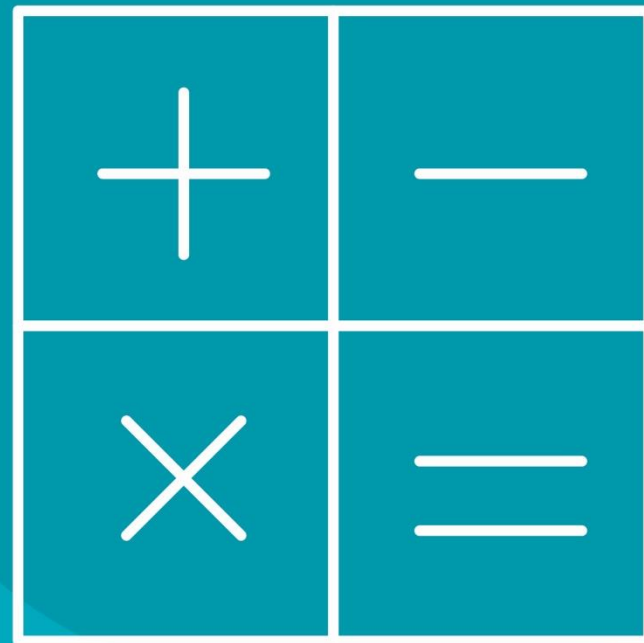
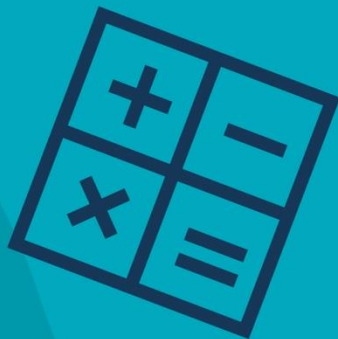




HAWKSWORTH WOOD
PRIMARY SCHOOL



Maths

Curriculum Document

Maths at Hawksworth Wood Primary School

Mathematics

At Hawksworth Wood Primary School, we believe that every child can achieve in maths and we are passionate about the importance of maths in everyday life. We believe maths is a crucial tool that all children require to support them to achieve and to make sense of the world they live in and we also believe that maths learning should be fun.

Our approach aims to provide all children with full access to a rich and challenging mathematics curriculum that will support their progress to becoming independent, confident and competent mathematicians, equipped for the next stage in their learning.

At Hawksworth Wood Primary School we follow the aims set out in the National Curriculum, using them to create and deliver a learning experience that gives every child the best opportunity to succeed.

As a school we aim to:

Make Maths Memorable

We want children to enjoy learning maths. At Hawksworth Wood Primary School, maths lessons can be practical, creative, investigative and collaborative to name just a few – the aim is to ensure children build a positive relationship with the subject and that they are eager for more!

Make Maths Meaningful

In Early Years, learning in maths is rooted in conceptual and concrete learning experiences. This provides children with a rich and tangible start to their maths journey and supports them to develop strong number sense through highly practical, language rich and real-life learning experiences.

In Years 1 – 6, learning is supported by MathsBeat – an approach that has problem solving and reasoning at the heart. Children take part in practical learning tasks that are rich in language and discussion, supporting them to become more confident in each session. Learning experiences provide children with varied and rich contexts in which to learn about concepts, supporting them to solve problems, spot patterns and make generalisations. The contextualised teaching enables children to develop a strong sense of purpose within mathematics.

Make Maths Manageable

Success in mathematics is built on a firm foundation of number sense and number facts. At Hawksworth Wood, we recognise the importance of supporting children to lay their own foundations in the subject so that they can make good progress. Across school, we have well-established routines that support children in learning, practising and retaining key maths skills such as times tables.



Maths Long-term Plan

Year Group	Autumn		Spring		Summer	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>Opportunities for settling in, introducing the areas of the provision and getting to know children. Key times of day, class routines. Exploring the continuous provision inside and out. Where do things belong? Positional language.</p> <p>Number Match and sort</p> <p>Compare amounts</p> <p>Measure, shape and spatial thinking</p> <p>Exploring patterns</p>	<p>Number Representing one, two and three</p> <p>Children begin to understand that as we count, each number is one more than the number before.</p> <p>Introduce children to the idea that all numbers are made up of smaller numbers.</p> <p>Measure, shape and spatial thinking Circles and triangles</p> <p>Positional language</p> <p>Representing numbers to five</p> <p>Children continue to count, subitise and compare as they explore one more and one less.</p> <p>Measure, shape and spatial thinking Shapes with four sides</p> <p>Time</p>	<p>Introducing zero</p> <p>Comparing numbers to five</p> <p>Composition of four and five</p> <p>Measure, shape and spatial thinking</p> <p>Compare mass</p> <p>Compare capacity</p> <p>Six, seven and eight Children continue to apply the counting principles when counting to six, seven and eight.</p> <p>Making pairs</p> <p>Combining two amounts</p> <p>Measure, shape and spatial thinking Length and height</p> <p>Time</p>	<p>Number Counting to nine & ten</p> <p>Represent nine and ten in different ways.</p> <p>Comparing numbers to ten</p> <p>Bonds to ten</p> <p>Measure, shape and spatial thinking 3D-shapes</p> <p>Build on children's earlier AB pattern work by introducing more complex patterns.</p>	<p>Number - Building numbers beyond ten</p> <p>Counting patterns beyond ten</p> <p>Measure, shape and spatial thinking - Spatial reasoning</p> <p>Number - Adding more and Taking away</p>	<p>Number Doubling</p> <p>Sharing and grouping</p> <p>Even and odd</p> <p>Measure, shape and spatial thinking -Spatial reasoning</p> <p>Patterns and relationships</p> <p>Investigate relationships between numbers and shapes.</p> <p>Measure, shape and spatial thinking – spatial reasoning.</p>



Maths – 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	Week 13
Term 1	Unit 1: Number and Place Value (Counting within 50; one more, one less)		Unit 2: Addition and Subtraction (Part-part-whole situations for addition and subtraction)			Unit 3: Geometry: Properties of Shapes (Cubes, cuboids and spheres)		Unit 4: Addition and Subtraction (Addition and subtraction facts within 10)		Unit 5: Measurement (Length and height; ordering events)		Unit 6: Multiplication and Division (Sharing and equal group problems)	
Term 2	Unit 7: Number and Place Value (Counting and ordering to 100)	Unit 8: Measurement (Money)	Unit 9: Addition and Subtraction (Add/subtract single-digit numbers to/from teen numbers/20; difference; addition and subtraction facts within 20)			Unit 10: Fractions (Halves and quarters)	Unit 11: Geometry: Position and Direction (Language of position, direction and movement)	Unit 12: Multiplication and Division (Array problems)		Unit 13: Measurement (Measuring mass; time as duration of events)		Consolidation	
Term 3	Unit 14: Number and Place Value (Counting and	Unit 15: Addition and Subtraction (Addition and subtraction		Unit 16: Geometry: Properties of Shapes (Recognizing and naming 2D and 3D shapes)	Unit 17: Measurement		Unit 18: Multiplication and Division (Multiplication as array and equal group		Unit 19: Fractions (Halves and quarters)		Consolidation		



	ordering to 100)	strategies; change unknown problems)		(Volume and capacity; length and height)	problems; division problems)		
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Maths – 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
Term 1	Unit 1: Number and Place Value (Skip counting in 2s, 3s and 5s; representing numbers using practical materials)		Unit 2: Addition and Subtraction (Addition and subtraction within and to 20)		Unit 3: Multiplication and Division (Multiplication as repeated addition and missing number problems)		Unit 4: Addition and Subtraction (Reasoning about addition and subtraction)		Unit 5: Fractions (Unit and non-unit fractions; representing fractions to solve problems)		Unit 6: Measurement (Measuring, comparing and ordering using non-standard and standard units)	
Term 2	Unit 7: Number and Place Value (Fluency through problem solving)	Unit 8: Addition and Subtraction (Addition and subtraction within and to 100)		Unit 9: Measurement (Finding amounts of money; giving change)	Unit 10: Statistics (Simple charts)	Unit 11: Multiplication and Division (Multiplication and division facts; solving problems with remainders)		Unit 12: Fractions (Fractions of continuous and discrete quantities; equivalent fractions)	Unit 13: Geometry: Properties of Shape (Properties of 2D and 3D shapes)		Consolidation	
Term 3	Unit 14: Number and	Unit 15: Measurement	Unit 16: Addition and Subtraction	Unit 17: Multiplic	Unit 18: Geometry: Position	Unit 19: Statistics	Unit 20: Fractions	Unit 21: Addition and Subtraction	Unit 22: Multiplication and Division		Consolidation	



	Place Value (Number lines; compare and order to 100)	(Time to five minutes)	(Add/ subtract two 2-digit numbers; inverse and commutative)	-ation and Division (Grouping and sharing to solve problems)	and Direction (Pattern, position and direction)	(Bar charts, pictograms, block diagrams and simple tables)	(Exploring relationships between fractional parts and wholes)	(Add/subtract two 2-digit numbers; using inverse to check calculations)	(Identifying equal and unequal number problems; simple scaling problems)	
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Maths – Year 3 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
Term 1	Unit 1: Number and place value (Reading and writing 3-digit numbers; counting in sequences)		Unit 2: Addition and subtraction (Adding and subtracting 3-digit numbers; methods for addition)		Unit 3: Geometry: properties of shapes (Triangles and quadrilaterals; angles as a measure of turn)		Unit 4: Multiplication and division (Connections between multiplication tables; problem solving)		Unit 5: Fractions (A fraction represents part of a whole; a fraction represents a number)		Unit 6: Measurement (Measure, compare and order lengths; analogue clock faces and units of time)	



Term 2	Unit 7: Number and place value (Big, bigger, biggest ... small, smaller, smallest)	Unit 8: Addition and subtraction (Strategies for adding and subtracting 3-digit numbers; methods of calculation)		Unit 9: Geometry: properties of shapes (Making 3D shapes)	Unit 10: Measurement (Estimate, compare and use measures, including money)	Unit 11: Multiplication and division (Multiplication and division facts; multiplication and division methods)	Unit 12: Fractions (Equivalent fractions; Adding and subtracting fractions with the same denominator within one whole)		Unit 13: Statistics (Collecting, representing and summarizing data)	Consolidation
Term 3	Unit 14: Number and place value (Solving number problems using our counting skills)	Unit 15: Measurement (Measuring perimeter)	Unit 16: Addition and subtraction (Adding and subtracting larger numbers)	Unit 17: Multiplication and division (Reasoning in multiplication and division contexts)	Unit 18: Measurement (Telling the time and the time of day)	Unit 19: Fractions (10 equal parts; comparing and ordering fractions)	Unit 20: Multiplication and division (Reasoning in multiplication and division contexts)	Unit 21: Statistics (Represent, interpret and respond to data)	Unit 22: Problem solving (Solving problems involving number and measure)	Consolidation



Maths – 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	
Term 1	Unit 1: Number and place value (Represent, read, write, round and compare numbers up to 10 000)		Unit 2: Addition and subtraction (Reasoning and problem solving with addition and subtraction: 3-digit numbers)		Unit 3: Geometry: properties of shapes (Making and comparing 2D shapes; making symmetrical shapes)		Unit 4: Multiplication and division (Making connections between multiplication facts; multiplying larger numbers)		Unit 5: Fractions (Decimals as numbers; decimals in context)		Unit 6: Measurement (Solving problems involving mixed measures and time)		
Term 2	Unit 7: Number and place value (Round and solve word problems)	Unit 8: Addition and subtraction (Reasoning and problem solving with addition and subtraction: 4-digit numbers)		Unit 9: Geometry: properties of shapes (Unit 9: Geometry: position and direction (Positions and translations on coordinate grids of labelled squares)		Unit 10: Measurement (Area and perimeter of rectangles and rectilinear shapes)		Unit 11: Multiplication and division (Developing multiplication strategies; using the distributive law)		Unit 12: Fractions (Are these fractions equal? Adding and subtracting fractions with the same denominator)		Unit 13: Statistics (Represent and summarize data collected over time)	Consolidation



Term 3	Unit 14: Number and place value	Unit 15: Measure- ment	Unit 16: Addition and subtraction	Unit 17: Multiplication and division	Unit 18: Geometry: properties of shapes	Unit 19: Statistics	Unit 20: Geometry: position and direction	Unit 21: Fractions	Unit 22: Problem solving	Consolidation
	(Compare and order numbers)	(Converting between units of measure- ment)	(Reasoning and problem solving with addition and subtraction)	(Factors and commutativity)	(Identifying, ordering and comparing angles)	(Collect, represent and summarize data)	(Using coordinate grids)	(Calculating fractional amounts of a whole; decimals and dividing by 10 or 100)	(Problem solving in contexts)	



Maths – Year 5 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
Term 1	<p>Unit 1: Number and place value</p> <p>(Represent integers with six or more digits)</p>	<p>Unit 2: Multiplication and division</p> <p>(Factors and multiples; mental and written methods; problems involving multiplication and division)</p>			<p>Unit 3: Geometry: properties of shapes</p> <p>(Estimate, measure, draw and use angles; reason and problem-solve with angles)</p>		<p>Unit 4: Fractions (including decimals and percentages)</p> <p>(Fractions in different forms; adding and subtracting fractions; decimal fractions)</p>			<p>Unit 5: Addition and subtraction</p> <p>(Adding and subtracting using different methods)</p>	<p>Unit 6: Measurement</p> <p>(Perimeter problems; volume and capacity)</p>	
Term 2	<p>Unit 7: Number and place value</p> <p>(Large positive integers are all around us)</p>	<p>Unit 8: Multiplication and division</p> <p>(Primes, composites, multiples and factors; mental and written methods for division)</p>	<p>Unit 9: Geometry: properties of shapes</p> <p>(Construct shapes with given properties)</p>		<p>Unit 10: Fractions (including decimals and percentages)</p> <p>(Understanding equivalences; percentages)</p>		<p>Unit 12: Addition and subtraction</p> <p>(Missing numbers and solving problems in context)</p>	<p>Unit 13: Measurement</p> <p>(Calculate, estimate and compare areas)</p>	<p>Unit 14: Geometry: position and direction</p> <p>(Reflect and translate shapes in the first quadrant)</p>	Consolidation		
Term 3	Unit 15: Number	Unit 16: Multiplication and division			Unit 17: Geometry:	Unit 18: Fractions (including	Unit 19: Statistics	Unit 20: Addition	Unit 21: Measurement	Consolidation		



	and place value (Interpret and solve problems involving negative numbers in context)	(Recognize and represent square and cube numbers; multiply and divide whole and decimal numbers by 10, 100 and 1000; solve problems strategically using squares, cubes, equivalence and simple rates)	properties of shapes (Identify and name 3D shapes from 2D representations)	decimals and percentages) (Operating on fractions; percentages and problem solving)	(Present and interpret data in tables)	and subtraction (Making decisions when calculating)	(Metric and imperial units in everyday contexts)	
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Maths – 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	Week 13
Term 1	<p>Unit 1: Number and place value</p> <p>(Fluency with large numbers)</p>	<p>Unit 2: Addition and subtraction, multiplication and division</p> <p>(Multi-digit multiplication; multi-digit division; problem solving with all four operations)</p>			<p>Unit 3: Geometry: properties of shapes</p> <p>(Construct 2D and 3D shapes)</p>	<p>Unit 4: Fractions (including decimals and percentages)</p> <p>(Use equivalences; add, subtract, multiply and divide fractions to solve problems)</p>		<p>Unit 5: Ratio</p> <p>(Proportions in ratio and percentage context)</p>	<p>Unit 6: Measurement</p> <p>(Estimate, compare and calculate volumes; convert between units of measure)</p>		<p>Unit 7: Algebra</p> <p>(Using letters to represent unknown numbers)</p>	<p>(Unit 8: Geometry: position and direction)</p> <p>(Points, lines, shapes and translations on the four-quadrant coordinate plane)</p>	
Term 2	<p>Unit 9: Number and place value</p> <p>(Negative numbers in context, including counting on and back)</p>	<p>Unit 10: Addition and subtraction, multiplication and division</p> <p>(Reasoning about the order used to solve calculations; mixed operations)</p>	<p>Unit 11: Geometry: position and direction</p> <p>(Reflections and translations in all four quadrants)</p>	<p>Unit 12: Fractions (including decimals and percentages)</p> <p>(Use equivalences and solve problems; multiply and divide fractions to solve problems)</p>		<p>Unit 13: Statistics</p> <p>(Graphs and pie charts)</p>	<p>Unit 14: Algebra</p> <p>(Use algebra to describe sequences and equations with two unknowns)</p>	<p>Unit 15: Measurement</p> <p>(Areas of parallelograms, triangles and related shapes)</p>	<p>Unit 16: Ratio and proportion</p> <p>(Solve problems in proportional share situations)</p>	<p>Unit 17: Geometry: properties of shapes</p> <p>(Apply angle properties and relationships to work out the values of unknown angles; shape properties,</p>	<p>Consolidation</p>		



										including circles)	
Term 3	Unit 18: Statistics (Calculate and interpret the mean as an average)	Unit 19: Addition and subtraction, multiplication and division (Solve and compare multi-step problems; number and calculation relationships and properties)	Unit 20: Fractions (including decimals and percentages) (Solve problems involving fractions, decimals and percentages; work with percentages, decimals and fractions)	Unit 21: Ratio and proportion (Use proportions in percentage and similar-shape situations)	Secondary progression 1 (Investigate triangular numbers)	Secondary progression 2 (Fake news)	Secondary progression 3 (Cupcake calculations)	Secondary progression 4 (Investigate and reason about numbers)	Consolidation		

