

Watling Street School - Mathematics Long Term Plans 2016-2017

Year Group	Autumn	Spring	Summer
Nursery.	<p>Days of the week Counting Inset jigsaws Quantities Organise/arrange objects Noticing simple patterns Big and small activities Full and empty activities Categorise according to properties Jigsaws Simple shapes Reciting numbers in order</p>	<p>Days of the week Counting Shapes/Patterns Shape and size activities Comparing quantities Important numbers Months of the year + & - number games More and less Symbols</p>	<p>Days of the week Months of the year Counting Matching number/quantity Number problems Grouping objects Positional language Similarities in shapes 'Bigger than'/'Enough' activities Grouping numbers Comparing groups Sorting/matching Shapes around us</p>
Reception	<p>Recognises numerals 1-9 Counts out up to 6 objects from a larger group Counts up to 10 objects using 1-1 correspondence Matches numerals to number of objects, up to 10 Uses 'more, fewer and less' to compare two sets of objects Finds 1 more or 1 less from a group of up to 5 objects Says the number that is 1 more than a given number up to 10 Finds the total number of objects in two groups by counting all of them Take away from 10 and find how many objects are left by counting</p>	<p>Counts an irregular arrangement of up to 10 objects Begins to recognise numbers to 20 Begins to count beyond 10 Counts up to 20 objects using 1-1 correspondence Estimates how many objects they see and checks by counting Uses the vocabulary of addition and subtraction Begins to add and subtract by counting on or counting back Begin to identify own mathematical problems Records, using marks they can interpret and explain Begin to solve problems involving doubling, halving and sharing</p>	<p>Count reliably with numbers 1-20 Order the numbers 1-20 Say which number is '1 more' or '1 less' than numbers to 20 Add 2 single digit numbers and count on to find the answer Subtract 2 single digit numbers and count back to find the answer Solve problems involving doubling, halving and sharing</p>

	<p>Beginning to use mathematical terms to name and describe 2D shapes</p> <p>Uses familiar objects and common shapes to create and recreate patterns and build models</p> <p>Understands positional vocabulary such as 'behind', 'next to', 'in front of'</p> <p>Orders 2 or 3 objects by length or height</p> <p>Uses everyday language related to time</p>	<p>Beginning to use mathematical terms to name and describe 3D shapes</p> <p>Uses familiar objects and common shapes to create and recreate patterns and build models</p> <p>Uses positional vocabulary accurately</p> <p>Orders 2 items by weight and use the correct vocabulary</p> <p>Orders 2 or more objects by capacity and uses the correct vocabulary to compare</p> <p>Beginning to use everyday language related to money</p> <p>Measures short periods of time in simple ways</p>	<p>Uses everyday language to talk about size, weight, capacity, position, distance, time and money.</p> <p>Uses everyday language to compare quantities and objects and solve problems</p> <p>Orders and sequences familiar events</p> <p>They recognise, create and describe patterns</p> <p>Explore characteristics of everyday objects and shapes</p> <p>Use mathematical language to describe everyday objects and shapes</p>			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p>Unit 1 - number and place value</p> <p>Addition and subtraction</p> <p>Properties of shape</p> <p>Unit 2 - addition and subtraction, addition and subtraction, measurement (length)</p>	<p>Unit 3 - number and place value, multiplication and division, position and direction, measure</p> <p>Unit 4 - addition and subtraction, fractions, money</p>	<p>Unit 5 - number and place value, addition and subtraction, fractions</p> <p>properties of shapes</p> <p>Unit 6 - multiplication and division, measurement - mass</p>	<p>Unit 7 - addition and subtraction, time, multiplication, division,</p> <p>Unit 8 - number and place value, fractions, capacity</p>	<p>Unit 9 - number and place value, addition and subtraction, position and direction</p> <p>Unit 10 - multiplication and division, measurement volume and capacity</p>	<p>Unit 11 - addition and subtraction, properties of shapes</p> <p>Unit 12 - multiplication and division, fractions, time</p>
Year 2	<p>Number and Place Value</p> <p>Addition and Subtraction</p> <p>Properties of Shape</p>	<p>Multiplication and Division</p> <p>Fractions</p> <p>Measurement</p> <p>Properties of Shape</p>	<p>Number and place value</p> <p>Addition and Subtraction</p> <p>Multiplication and Division</p>	<p>Fractions</p> <p>Statistics</p> <p>Measurement</p> <p>Position and Direction</p>	<p>Addition and Subtraction</p> <p>Multiplication and Division</p>	<p>Fractions</p> <p>Statistics</p> <p>Measurement</p>

	Measurement Position and Direction					
Year 3	Number and place value Addition and Subtraction Multiplication and division	Geometry - properties of shape Measurement (time, mass) Fractions	Number/place value Addition and subtraction Multiplication and division - place value and number	Measurement(length and perimeter) Fractions Statistics	Number and place value Addition and subtraction Multiplication and division Properties of shapes	Properties of shapes Multiplication and division Fractions Measurement(time) Volume and capacity
Year 4	Number and place value Addition and Subtraction Properties of shape Multiplication and division; including number and place value	Fractions Decimals Positions and direction Measurement (mass) Measurement (time)	Number and place value Addition and subtraction Properties of shape Multiplication and division; including number and place value	Statistics Multiplication and division Decimals Measurement (length) Fractions	Number and place value Addition and subtraction (including money) Properties of shape Multiplication and division Position and direction	Fractions Decimals Position and direction Statistics
Year 5	Place Value Addition and Subtraction Multiplication and Division Fractions	Decimals Properties of Shapes Position and Direction Measurement (mass) Measurement (time)	Place Value Addition and Subtraction Multiplication and Division Fractions	Decimals Percentages Properties of Shapes Measurement(length) Measurement (perimeter and area) Statistics	Place Value Addition and Subtraction (including money) Multiplication and Division (including money)	Fractions Percentages Properties of Shapes Position and Direction Measurement (volume and capacity) Statistics
Year 6	Number and Place Value Addition and subtraction	Multiplication and division Fractions Unit 3: Decimals	Addition, subtraction, multiplication and division	Unit 8: Multiplication and division incl. Decimals Unit 6: Measurement	Unit 11: Ratio and proportion Unit 9: Addition and subtraction	Unit 10: Multiplication and division incl. decimals

	Addition and Subtraction Properties of shape Position and direction Multiplication and division	Measurement	Algebra Properties of shape Multiplication and division Decimals	Measurement Fractions Ratio and proportion Statistics	Addition, subtraction, multiplication and division Algebra Properties of shapes Position and direction	Multiplication and division incl. Decimals Fractions Measurement Statistics
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