



**Primary Mathematics Curriculum - Overview**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>The objective for EYFS is to ensure that all children develop firm mathematical foundations in a way that is engaging, and appropriate for their age. EYFS use the 6 areas of learning: Cardinality and counting; Comparison, Composition, Pattern, Shape &amp; Space and measures throughout the year. Following progression in these areas and teaching through multilayered approaches.</p>					
Y1	<ul style="list-style-type: none"> <li>● Previous Reception experiences and counting within 100</li> <li>● Comparison and ordering of objects, drawings and numbers upto 10</li> <li>● Part Part Whole model and composition of numbers upto 10</li> </ul> <p>Fluency sessions: Bonds to 10 Dates and days Skip counting</p>	<ul style="list-style-type: none"> <li>● Part Part whole model and composition of numbers upto 10</li> <li>Cont'd</li> <li>● Addition and Subtraction strategies</li> <li>● Measures</li> <li>● Shape</li> </ul> <p>Fluency sessions: Bonds to 10 and corresponding single digit to teen number pairing to 20 Skip counting</p>	<ul style="list-style-type: none"> <li>● Number and place value upto 20</li> <li>● Addition and Subtraction within 20</li> </ul> <p>Fluency sessions: Position and Direction (with PE)</p>	<ul style="list-style-type: none"> <li>● Measures</li> <li>● Numbers upto 50</li> <li>● Time</li> </ul> <p>Fluency sessions: Practical exploration of measures</p>	<ul style="list-style-type: none"> <li>● Place Value and Add &amp; Subtract recap and extend to 50</li> <li>● Concrete and Pictorial exploration of Multiplication and Division</li> </ul> <p>Fluency sessions: Bonds to 100 (multiples of ten). Time games</p>	<ul style="list-style-type: none"> <li>● Money - Concrete exploration</li> <li>● Calculations with Money</li> <li>● Measures</li> </ul> <p>Fluency sessions: Fractions in art Exploring language of half and quarter One of two equal parts One of four equal parts</p>
Y2	<ul style="list-style-type: none"> <li>● Number and Place Value upto 100</li> <li>● Compare, order and patterning upto 100</li> <li>● Fluently add and subtract within 10</li> <li>● Calculations upto 20</li> </ul>	<ul style="list-style-type: none"> <li>● Addition and subtraction strategies cont'd</li> <li>● Money</li> <li>● Measures</li> <li>● Statistics</li> </ul>	<ul style="list-style-type: none"> <li>● Introduction to multiplication</li> <li>● Introduction to division structures</li> <li>● Measures</li> </ul>	<ul style="list-style-type: none"> <li>● Addition and Subtraction of two-digit numbers</li> <li>● Time</li> <li>● Exploration of fractions</li> </ul>	<ul style="list-style-type: none"> <li>● Calculation recap and Word Problems</li> <li>● Geometry</li> </ul>	<ul style="list-style-type: none"> <li>● Maths Investigations</li> <li>● Sense of measure</li> </ul>



	<p>Fluency Sessions: Days/Dates/Calendar Bonds (to 10, to 20, multiples of ten to 100) Composition and decomposition of numbers.</p>	<p>Fluency Sessions: Days/Dates/Calendar Bonds Composition and decomposition of numbers</p>	<p>Fluency Sessions: Position and Direction (With PE) Skip counting Times tables games</p>	<p>Fluency Sessions: Position and Direction Bonds to 100 (tens and ones) Money games</p>	<p>Fluency Sessions: Adding multiples of 10 Doubling and Halving</p>	<p>Fluency Sessions: Statistics</p>
Y3	<ul style="list-style-type: none"> <li>● Place Value of numbers upto 1000</li> <li>● Addition and Subtraction across tens</li> <li>● Compare, order and patterns of number upto 1000</li> </ul> <p>Fluency Session Multiples of ten to compose 100 part/part whole composition to ten using bonds to ten and corresponding bonds to 100.</p>	<ul style="list-style-type: none"> <li>● Addition and Subtraction strategies upto 1000</li> <li>● Measures and scaling in measurement</li> <li>● Exploration of 2,4 8 times tables</li> </ul> <p>Fluency sessions: Add and Subtract ones from any number within 1000 Add and subtract tens from any number within 1000 Add and subtract hundreds from any number within 1000</p>	<ul style="list-style-type: none"> <li>● Multiplication and Division</li> <li>● Exploration of 3, 6, 9 times tables</li> <li>● Money</li> </ul> <p>Fluency Sessions: count forwards and backwards in multiples of 2, 20, 5, 50 and 25 use knowledge of counting in multiples of 2, 20, 5, 50 and 25 to solve problems</p>	<ul style="list-style-type: none"> <li>● Add and subtract three-digit numbers</li> <li>● Inverse relationship and mental strategies of addition and subtraction</li> <li>● Geometry</li> </ul> <p>Fluency sessions: Times Tables Time</p>	<ul style="list-style-type: none"> <li>● Inverse relationship of multiplication and Division</li> <li>● Fractions</li> </ul> <p>Fluency sessions: Times Tables Time</p>	<ul style="list-style-type: none"> <li>● Fractions Continued</li> </ul> <p>Fluency Sessions: Statistics</p>
Y4	<ul style="list-style-type: none"> <li>● Number and Place Value upto 10 000</li> <li>● Compare and order four digit numbers</li> <li>● Compose and decompose numbers</li> <li>● Rounding</li> <li>● Column addition and subtraction</li> </ul>	<ul style="list-style-type: none"> <li>● Calculate efficiently by using knowledge of place value, addition and subtraction</li> <li>● use knowledge of 1,000 to solve problems</li> <li>● Times Tables</li> <li>● Perimeter</li> </ul>	<ul style="list-style-type: none"> <li>● 3, 6, 9 tables recap</li> <li>● Multiplication and Division</li> <li>● Scaling in measures</li> <li>● Coordinates</li> </ul> <p>Fluency Sessions: Times tables Position and Direction</p>	<ul style="list-style-type: none"> <li>● Understanding multiplicative relationships</li> <li>● Fractions</li> <li>● Geometry</li> </ul> <p>Fluency Sessions: Times Tables Time</p>	<ul style="list-style-type: none"> <li>● Fractions</li> <li>● Statistics</li> </ul> <p>Fluency sessions: Symmetry, translation and rotation</p>	<ul style="list-style-type: none"> <li>● Decimals</li> <li>● Money</li> </ul> <p>Fluency sessions: Place Value revision</p>



	<p>Fluency sessions: Times Tables Count in multiples of 6, 7, 9, 25 and 1,000 Find 10, 100, 1,000 more or less than a given number.</p>	<p>Fluency sessions: Times Tables Add and subtract multiples of ten/Hundred Multiply / Divide by 10/100</p>				
Y5	<ul style="list-style-type: none"> <li>•Numbers to 1 million</li> <li>•Compare and order to one million</li> <li>•Rounding to nearest 10, 100 or 1000</li> <li>•Negative numbers</li> <li>•Roman numerals</li> <li>•Addition and subtraction using formal methods</li> </ul> <p>Fluency sessions: Times Tables practice Adding and subtracting multiples of ten, hundred or thousand Mental calculations</p>	<ul style="list-style-type: none"> <li>•Addition and Subtraction cont'd</li> <li>•Multiplication and Division</li> <li>•Perimeter and Area</li> <li>•Statistics</li> </ul> <p>Fluency Sessions: Multiplying and Dividing by powers of ten</p>	<ul style="list-style-type: none"> <li>•Multiplication and Division formal calculations</li> <li>•Fractions</li> <li>•Geometry: Shape</li> </ul> <p>Fluency sessions: Mental calculation strategies Tables practice</p>	<ul style="list-style-type: none"> <li>•Fractions Cont'd</li> <li>•Decimals</li> <li>•Geometry: Angles</li> <li>•Geometry: Position and Direction</li> </ul> <p>Fluency sessions: Investigations Further problem solving and reasoning practice</p>	<ul style="list-style-type: none"> <li>•Measures</li> <li>•Fractions, Decimals and Percentages</li> </ul> <p>Fluency sessions: Calculation revision Tables practice</p>	<ul style="list-style-type: none"> <li>•Fractions, Decimals and Percentages continued</li> <li>•Measurement: Converting Units</li> </ul> <p>Fluency sessions: Statistics revision Coordinates</p>
Y6	<ul style="list-style-type: none"> <li>•Multiplication and division using formal methods</li> <li>•Geometry: Angles</li> <li>•Numbers to 10,000,000</li> </ul>	<ul style="list-style-type: none"> <li>•Position and direction</li> <li>•Geometry: 2D and 3D shapes</li> <li>•Fractions</li> <li>•Order of operations</li> </ul>	<ul style="list-style-type: none"> <li>•Statistics</li> <li>•Decimal place value system</li> </ul>	<ul style="list-style-type: none"> <li>•Algebra</li> <li>•Mean average</li> <li>•Percentages</li> <li>•Solving problems with measure including area, perimeter and volume</li> </ul>	<ul style="list-style-type: none"> <li>•Consolidation</li> <li>•Ratio and proportion</li> <li>•Calculating using knowledge of structures</li> </ul>	<ul style="list-style-type: none"> <li>• Statistics</li> <li>• Investigation: Working systematically</li> </ul>
<p>Fluency sessions in Year 6 will be continuous recap and consolidation of Primary Maths Knowledge to ensure fluency, rapid recall, efficient methods, reasoning abilities and language of mathematics.</p>						



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## Maths at Europa School is based on the Mastery in Maths approach to learning.

We believe children's chances of success are maximised if they develop deep and lasting understanding of mathematical procedures and concepts.

A 'mastery' approach is a set of principles and beliefs that all learners can succeed with acquiring key conceptual understanding through varying levels of scaffolding.

Teaching for 'mastery' includes a set of teaching strategies, e.g. Concrete/Pictorial/Abstract (CPA) approach and variation.

[Haylock and cockburn CPA diagram.jpg](#)

A 'mastery' curriculum gives access to concepts for all, with the acquisition of depth rather than acceleration through content.

The Europa Maths Curriculum prepares our learners to be fluent, confident mathematicians of the 21st century. It equips them with the problem solving, language skills and growth mindset they need to flourish.

We use the National Curriculum for England for the Programme of Study with minor alterations within each phase for some topic area, e.g. Roman Numerals in Year 5 not before.

The overview gives an idea of the levels at each year group and the topics to be covered throughout the year.

Throughout each topic the teaching will embed fluency, problem solving and reasoning.

Staff may alter timings of topics and extend or lessen the weeks spent dependent on the cohort.