



## Walford Nursery & Primary School



### FLUENCY in MATHS

By focusing on these key skills at each developmental stage, pupils can develop a strong foundation in Maths, developing logical reasoning and problem-solving skills as they progress through primary school.

| Age 2 years – 5 years<br>(EYFS – Nursery & Reception)   | Age 5 years – 7 years<br>(KS1 – Year 1 & Year 2)   | Age 7 years – 11 years<br>(KS2 – Year 3, Year 4, Year 5 & Year 6)   |
|---|--|---|
| <p><b>Counting and Number Recognition</b></p> <ul style="list-style-type: none"> <li>Develop early counting skills through games, rhymes and hands-on activities.</li> <li>Introduce number recognition for numbers 1 to 10.</li> </ul> <p><b>Shape and Space Awareness</b></p> <ul style="list-style-type: none"> <li>Explore basic shapes and their properties.</li> <li>Develop spatial awareness through activities like building and arranging objects.</li> </ul> <p><b>Measurement Concepts</b></p> <ul style="list-style-type: none"> <li>Introduce simple measurement concepts, such as comparing sizes and lengths.</li> <li>Use everyday objects to explore concepts like tall, short, big, small, etc.</li> </ul> <p><b>Pattern Recognition</b></p> <ul style="list-style-type: none"> <li>Foster pattern recognition through activities like sorting and arranging objects.</li> <li>Introduce simple repeating patterns.</li> </ul> | <p><b>Number Bonds and Basic Operations</b></p> <ul style="list-style-type: none"> <li>Develop understanding of number bonds to 10 and 20.</li> <li>Introduce basic addition and subtraction using concrete materials.</li> </ul> <p><b>Place Value Understanding</b></p> <ul style="list-style-type: none"> <li>Introduce the concept of place value for two-digit numbers.</li> <li>Use manipulatives to explore tens and ones.</li> </ul> <p><b>Time and Money Skills</b></p> <ul style="list-style-type: none"> <li>Develop basic skills in telling time using both analogue and digital clocks.</li> <li>Introduce counting money and making simple transactions.</li> </ul> <p><b>Multiplication and Division Concepts</b></p> <ul style="list-style-type: none"> <li>Introduce the concepts of multiplication and division through arrays and sharing activities.</li> <li>Explore the relationship between multiplication and addition.</li> </ul> | <p><b>Advanced Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Develop mental strategies for addition and subtraction.</li> <li>Introduce column addition and subtraction with regrouping.</li> </ul> <p><b>Multiplication and Division Fluency</b></p> <ul style="list-style-type: none"> <li>Build fluency in multiplication and division facts.</li> <li>Explore different strategies for solving multiplication and division problems.</li> </ul> <p><b>Fractions and Decimals</b></p> <ul style="list-style-type: none"> <li>Introduce the concept of fractions through hands-on activities and visual models.</li> <li>Explore decimal numbers and their relationship to fractions.</li> </ul> <p><b>Geometry and Measurement</b></p> <ul style="list-style-type: none"> <li>Explore advanced geometry concepts, including angles, symmetry, and properties of shapes.</li> <li>Develop measurement skills in length, weight, capacity, and area.</li> </ul> <p><b>Data Handling and Statistics</b></p> <ul style="list-style-type: none"> <li>Introduce basic concepts of data handling, including collecting, organizing, and interpreting data.</li> <li>Explore the creation and interpretation of bar graphs and line graphs.</li> </ul> <p><b>Problem-Solving and Reasoning</b></p> <ul style="list-style-type: none"> <li>Foster problem-solving skills through a variety of mathematical contexts.</li> <li>Encourage logical reasoning and justification of answers.</li> </ul> <p><b>Algebraic Thinking</b></p> <ul style="list-style-type: none"> <li>Introduce basic concepts of algebraic thinking, such as using variables and solving simple equations.</li> </ul> |

- Explore patterns and relationships.

**Mathematical Communication**

- Develop skills in articulating mathematical thinking both verbally and in writing.
- Encourage pupils to explain their reasoning and share their solutions.

