



# Woodlands Park Primary and Nursery School

## Characteristics of a Mathematician



### Curriculum Intent:

Maths is crucial to all aspects of modern day life. We use it every day and sometimes without realising it. At Woodlands Park, we are working hard to ensure that all children gain a depth of understanding about mathematical concepts that will enable them to apply their learning in real life scenarios and be confident and resilient in their understanding of maths. We ensure children are fluent in number bonds, times tables and can manipulate numbers. They are able to reason mathematically using pictorial, concrete and abstract methods such as whole/part model, bar model and written formal methods. Children can then use this knowledge to solve problems, be confident in their explanations and thinking and see how all areas of maths are interconnected with each other and the real world.

### Characteristics of our Maths Curriculum:

- Confidence in mental fluency
- Good knowledge of place value to underpin whole curriculum.
- Mathematical language used in explanations.
- Mental Arithmetic used in daily lessons.
- Use of technology to support and enrich mathematical learning.
- Application of skills in problem solving and reasoning.
- Encourage resilience in problem solving.

Implementation of our Maths Curriculum in EYFS	Implementation of our Maths Curriculum in Key Stage One	Implementation of our Maths Curriculum in Key Stage Two
<ul style="list-style-type: none"> <li>• Pictorial and concrete resources</li> <li>• Registration/lunch ordering – mathematical opportunities</li> <li>• Staff promote exposure to maths across all areas when in free flow.</li> <li>• Inputs and planned activities, interactive and hands on</li> <li>• Daily opportunities to subitize to develop number sense</li> <li>• Maths challenges for home given via diary notes</li> <li>• Triangulated approach to number sense with 5 frames</li> <li>• Linked to the wider curriculum with skilled staff in taking 'moments' and extending children's understanding</li> <li>• Numberblocks</li> </ul>	<ul style="list-style-type: none"> <li>• Developing mastery – investigating what mastery is, how it can be taught, the importance of a 'hands on' experience so that children have a chance to embed skills, how to apply them and with fluency.</li> <li>• Using White Rose Maths, Classroom Secrets, whole class and small group teaching</li> <li>• Making connections between maths and real life</li> <li>• Focus on retention and recall of key knowledge and vocabulary.</li> </ul>	<ul style="list-style-type: none"> <li>• Whole class teaching</li> <li>• Daily arithmetic to build retention and recall</li> <li>• Times Table daily practice</li> <li>• Catch up interventions (Rapid Maths)</li> <li>• White Rose Maths and Classroom Secrets</li> <li>• Varied Fluency daily</li> <li>• Extend understanding of number system and place value</li> <li>• Making connections between topics and knowledge</li> <li>• Problem solving with accuracy, understanding and explanation.</li> <li>• Fluent in all four operations written and mental methods</li> <li>• Language of algebra</li> </ul>