

WINFORD PRIMARY SCHOOL

THE MATHS CURRICULUM

At Winford Primary School we understand the importance of developing confident, able mathematicians and we intend to provide all pupils with a high-quality, comprehensive education in mathematics.

We are embracing the mastery approach to maths learning across the school and aim to provide all children with the best possible opportunities to develop a deep understanding of all aspects of the maths curriculum whilst giving them the ability to make links between the different areas of their learning.

Implementation of the maths curriculum:

Curriculum

- As a school we follow the National Curriculum objectives for maths. We utilise the White Rose teaching sequence as we feel this offers the best opportunity for children to cover all objectives in an order that makes sense mathematically and provides maximum opportunity for building links and depth of learning which are key to the mastery approach.

Maths teaching

- To accompany the White Rose teaching sequence we deliver our daily maths teaching through the Power Maths scheme. Power Maths has been developed by White Rose to follow National Curriculum objectives and support the teaching of mathematics in a manner that encourages mastery of the subject through variation, repetition and fluency. In class, each child has their own Power Maths workbook which guides them through lessons and learning with carefully worded and scaffolded problems designed to support the mastery approach to maths learning.
- Power maths lessons are clearly structured and allow children to learn by first introducing a new skill through a maths problem which encourages discussion and application of prior learning, then gradually introduces new learning in a scaffolded manner, before allowing children opportunities to practise new learning in a variety of different ways.
- In order to maintain children's arithmetic and maths book skills, children are given opportunities to practise calculation strategies during weekly short arithmetic sessions, which primarily focus on the four functions (addition, subtraction, multiplication and division) and allow children the opportunity to practise accurate laying out of these sums on squared paper.

Assessment

- As a school we implement timely and effective formal and informal assessment and monitoring of pupils to ensure gaps are addressed and further opportunities to both support the less able and develop greater depth mathematicians are realised. These assessments include twice yearly NFER/White Rose/Power Maths formal assessments, weekly multiplication clubs and in Year 4, the MTC (Multiplication Check).
- Teachers assess the attainment and progress of pupils through the Year Group specific KPIs (Key Performance Indicators) which are updated at key points throughout the year.
- Senior leaders support and monitor staff to ensure teaching is consistent, high quality and the mastery approach is utilised across the entire school.

Use of assessment in the classroom

- Teachers will use results of NFER/WR/PM assessments to inform interventions, identify children requiring further support or to inform homework and home learning opportunities to support and supplement learning in class.

Learning environments

- Maths working walls are used in every classroom to support children with their maths learning and help them retain prior learning.
- Manipulatives and a wide range of maths resources are available in every classroom to support children's maths learning and aid progress and attainment. These can vary between Key Stages due to the individual needs of the child or class, though these can include:
 - Numicon
 - Base Ten/Dienes
 - Place Value Counters
 - Arrow cards
 - Multi-link
 - Rekenrek
 - Dice
 - 2D and 3D shapes
 - Money
 - Fraction cards
 - Fraction and decimal counters
 - Place value charts
 - Clocks

Home learning opportunities

- We offer and embrace opportunities for further learning through teacher directed educational programs available at home, consistently across all year groups, such as Times Tables Rock Stars.

