Excellence through Opportunity

Woodside Academy – Intent, Implementation and Impact Statement

Maths

Intent

Our intent is that everyone 'can do maths'! It is our intention to ensure that, by the end of our pupils' primary education, all pupils know they 'can do maths'. We want pupils to enjoy maths, become fluent in the fundamentals of maths and be able to apply their understanding when reasoning or solving problems in a range of contexts. Being confident in maths is an important life skill as well as a curriculum subject and at Woodside Academy, we want our pupils to have an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

Implementation

A love of maths is encouraged throughout school. We follow the national curriculum objectives and since September 2020, our school has been using the White Rose Maths Schemes of Learning from Nursery to year 6 for structure and guidance. In KS1 and KS2, we have daily maths lessons taught in mixed ability classes. All pupils are exposed to fluency, reasoning and problem-solving questions and taught how to approach these. Pupils are supported in lessons with a range of manipulatives appropriate to the objectives and lessons. To support Mathematics, we have a range of concrete resources, including: counters (place value and double sided), Base10, Numicon and many other manipulatives. Once children have grasped the concept using concrete resources, pictorial representations (including pictures and diagrams) are used to develop their understanding further. Abstract Mathematics then allows the children to explore concepts in different contexts using all of the knowledge and understanding developed through the CPA (Concrete, Pictoral, Abstract) approach.

Vocabulary

Children from EYFS through to Year 6 are taught key vocabulary which enables them to develop the confidence to explain mathematically. The teacher will demonstrate the

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importance of the use of the correct vocabulary and will encourage children to use this throughout the lesson and through explanations/justifications to reasoning and problem solving questions.

Starters and consolidation

Each Maths lesson will start with 'Flashback Four' questions or similar starter activities that allow the children to practise a concept from the previous lessons, the previous week and topics from earlier in the year – maybe even last year.

Pupils with additional needs are normally taught within the class and their learning is scaffolded with adult support or appropriate resources.

Time tables

Times tables and arithmetic skills are focused on across the school with lessons and starters. In order to advance individual children's maths skills in school and at home, we utilise Times Tables Rock Stars for multiplication practise, application and consolidation. To encourage a love of times tables , children who have 'gone green' by answering all times tables up to 12x12 in under 4 seconds, are presented with a certificate and special badge in celebration assembly with their name displayed on the ttrockstars board.

Love of maths

To continue to promote the love of maths, we have maths events occurring throughout the year including a maths week with fun, engaging, interactive, practical maths lessons and mathletes competition and ttrockstars competitions. Children are also provided with daily challenges in maths lessons, to further promote a love of maths and develop their fundamentals of mathematical concepts.

Monitoring

Formative and summative assessments are used to inform planning to ensure gaps in learning are narrowed and that we are providing excellent provision for every child.

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These assessments are used to then plan and administer in the moment interventions that can be used to plug gaps or to pre-teach concepts for future lessons. Through book shares and lesson observations, we recognise that staff are delivering Maths lessons to the children that inspire, challenge and support all learners.

Impact

The impact will be seen with pupils showing confidence in believing they 'can do maths' and are ready to attempt to solve problems. Lessons have a range of fluency, reasoning and problem solving activities.

At Woodside Academy, the children are continuously developing their knowledge and understanding of Maths throughout the school day. We strive for all learners to be at the expected standard at the end of the academic year; with some learners exceeding this and achieving greater depth. For those children who have gaps in their learning, we support them through lessons and interventions with the aim of narrowing the gap. The children have opportunities to access the learning at all levels and are becoming confident in their ability through the use of our mixed ability pairing, interventions and challenges. They can talk confidently about their learning and are keen to share their success. Children are aware of the importance of learning different mathematical concepts and how it links to the world around them.