

Maths

Intent

- Children have access to a challenging and enjoyable maths curriculum which aims to develop strong number fluency.
- The curriculum offered has variety of different mathematical opportunities, allowing children to gain understanding by making the connections to between the different topics in maths.
- Children become confident learners who adopt a growth mindset in maths, becoming independent mathematicians with inquisitive minds and love of learning.
- Children are taught the essential knowledge and skills required for the next stages of their learning and for any future employment opportunities involving mathematical understanding.

Implementation

Pre-teach: Teachers make use of AFL (assessment for learning) to identify children who require extra support to reach the objective for the days learning. These children will take part in pre-teach interventions which ensure they feel prepared for the lesson ahead of them.

Recap of previous concepts: Our children require regular exposure to mathematical concept to gain a proper understanding and to deepen their knowledge. Overlearning is built into our lesson structure, flashback 4 occurs at the start of every lesson to remind children of concepts they've covered and to better prepare them for concepts to come.

Working Walls: Teachers make use of working wall throughout lessons. Modelling to children how to make use of this tool and how to apply it to their current learning. The use of working walls helps children to foster their independence in approaching unfamiliar concepts and to make use of good mathematical vocabulary when explaining their reasoning.

Relational understanding: We understand that to gain a deep mathematical understanding children need to do more than just memorize a formula. When introduced to new maths concepts we make use of a range of materials (physical, pictorial, and abstract) to help our children relate these concepts to real life situations and allow them to see the effect of maths on the wider world.

Whole class learning: All children are working towards the same common objective. The goal is that most children meet age related objectives, through different levels of support, and children that grasp concepts quicker are encouraged to deepen understanding through complex reasoning.

Marking and feedback: Marking is carried out to address any misconceptions so that children can act upon them during their lessons. Live marking takes place during lesson time which gives children instant feedback which can further advance their learning. Work is marked post-lesson with feedback given to encourage learning and targets to further enforce learning or to push children's mathematical reasoning skills.

Recovery curriculum: adjustments have been made to ensure that all children have the skills that they will need to access an age-related curriculum. Re-cap lessons are integrated into our maths planning when reencountering a concept again, this low-floor high-ceiling approach means that all our children can make good individual progress in their mathematical abilities. Any children who are identified as needing extra support are noted by teachers present, these children will then receive the appropriate intervention needed to assist them in achieving the age-related objective.

Impact

When it is time for a child to move on from Mundy CofE Junior School, we aim to fully equip them the confidence, mathematical fluency, and the vocabulary to make links between previously encountered mathematical concepts and to progress smoothly onto the next stage of their learning. During lessons, children are given the opportunity to explain their reasoning using the correct vocabulary and justify their choice of approach to a concept, this ensure that our children reach a deeper understanding of our mathematical curriculum. Throughout the year, children are revisit concepts multiple times giving them to chance to demonstrate their individual retention of knowledge and skills which are then seen in their end of year assessments. We believe, children leaving Mundy CofE Junior School have all the essential skills and knowledge required to effectively continue their mathematics education as the move on to Secondary school.