

Mathematics Statement of Intent

Intent

It is our intent that mathematics forms an integral part of our broad and balanced curriculum. Through the teaching of a systematic and progressive programme of study based on White Rose Maths we ensure that mathematical fluency and computation skills are taught as a pre-requisite to reasoning and problems solving. As with all curriculum subjects, we strive to provide an environment whereby pupils will develop an enjoyment of and enthusiasm for maths that will empower them for successful future life choices. Our Intent is to develop understanding, confidence and competence in maths and to enable the application of these processes within the wider curriculum; for example, through STEAM projects.

Implementation

Within our mixed age classes, we base the teaching of mathematics on White Rose Maths mixed age progression planning. However, teachers have the freedom to use resources from other schemes such as Primary Stars and Hamilton trust if they assess that these resources will fulfil pupils learning needs and understanding of concepts.

In Early Years, pupils are provided with and select mathematical resources to explore during child centred learning. Whole class number rhyme singing and chanting will help pupils to consolidate number patterns. Teacher directed learning also forms an important element of our Early Years provision and supports pupil development of more formal number formation and written calculation.

KS1 follow the mixed age planning units from the White Rose Maths scheme which enables consistency of teaching the same maths unit to both year groups. Resources selected from a range of maths schemes enables the teacher to select the most appropriate provision for learning. Each child's Maths learning journey, which includes practical scaffolded learning opportunities, abstract computation and reasoning/mastery problem solving is evidenced in yellow exercise books.

KS2 follow White Rose Maths mixed age planning. The class, which consists of Year Groups 3-6 is divided into three maths groups, which alongside supporting pupils with additional IEP's enables the teacher to provide the most effective method of teaching this mixed age class. A maths programme of study with a two year cycle and a daily lesson structure where pupils complete work at their assessed level to fill gaps and catch up to ARE during a Mastery session at the end of the lesson enables good practice to be implemented within this mixed age class. Pupils learn maths through interacting with WRM teaching videos and Power points alongside scaffolded support and practical activities by the teacher. WRM workbooks provide a structure for the abstract application of knowledge and skills and reasoning/mastery problem solving is demonstrated in Yellow maths books.

Impact

The impact of our mathematics curriculum is that children will understand that maths is a vital life skill that they will rely on in many areas of their daily life. Children will have a positive view of maths and will find it an exciting and enjoyable subject in which they can investigate and ask questions. Children will be confident to 'have a go' and choose the equipment they need to help them to learn; along with the strategies that are best suited to solve each problem. Teachers assess pupils' maths understanding during the lesson and through marking. Marking provides teachers with formative assessment for next step learning. Whole school, Rising Stars Summative assessment, twice a Year in Autumn and Spring, enable teachers to understand how pupils apply their learning in a different format and how pupils are able to demonstrate their knowledge of fluency, reasoning and problem solving under test conditions. We moderate our maths books both internally as part of our Subject monitoring and externally in conjunction with Cluster School Moderation Meetings.