

Mathematics at Leyburn Primary School

Intent

The purpose of mathematics at Leyburn Primary School is to equip the children with the knowledge, skills and understanding to become confident mathematical problem solvers. Children are taught to think and reason mathematically, apply skills fluently and efficiently, arriving at the accurate answer. Mathematics at Leyburn Primary School provides children with an understanding of the world around them and a curiosity and enjoyment of the subject. At Leyburn Primary, we are passionate about ensuring that all children receive a sequenced, knowledge rich mathematical education.

Implementation

The mathematics curriculum is planned in a sequenced way to build knowledge, skills, understanding and mathematical vocabulary from Early Years to Year 6. The White Rose Maths scheme is used as the core resource to support this.

The school curriculum ladders build on knowledge from one year to the next.

Recalls are carefully planned to ensure knowledge in the long term memory and any knowledge gaps are fill with appropriate intervention.

For mathematical components covered at the end of the school year, recalls are planned for the following school year.

Teachers will plan lessons to create deeper understanding rather than accelerate children to new content.

Concrete, visual and abstract resources will support children's learning ensuring components are embedded.

Variation will be planned into each lesson to develop children's confidence when reasoning.

Impact

To be monitored ongoing and fully reviewed at the end of the year.

Substantive and disciplinary knowledge in mathematics

Children need substantive knowledge in mathematics (eg. number facts, times tables) and disciplinary knowledge (how to work things about, reason and problem solve). They will be taught to make links across different mathematical components to build this knowledge in their long term memory.

Assessment in mathematics

Assessment, both formative and summative, is an integral part of the day-to-day mathematics planning, teaching and learning at Leyburn Primary School. We ensure that children are provided with age appropriate, formative feedback allowing them to move their learning on in a sequential way. As a school, we feel it is important that the children engage with this feedback and that they are able to articulate their own progress. After a unit has been completed, the children will have low stake recalls to ensure the knowledge has been retained in the long term memory. These recalls are carefully planned and can take many forms, including quizzes or whole class discussions. We use summative assessments to monitor the children's progress with three data collection points throughout the year.