Policy Statement for Mathematics

In our teaching of mathematics, we aim to build confidence and competence in mathematics, no matter at what point children are starting.

We use White Rose Maths as the basis for the structure and delivery of our mathematics curriculum from Reception to year 6. White Rose Mathematics is based securely on the National Curriculum. The full sequences of learning for reception and Key Stages 1 and 2 can be viewed on the school website.

Lessons have a daily emphasis on developing an understanding of number and counting, mental mathematics and, in key stage 2, written calculations. Our Calculations Policy sets out clearly the written methods that we teach the children and our end of year expectations. Essential mathematics skills are consolidated through daily practice (see the table below). Children's understanding of mathematics is underpinned by the use of concrete and pictorial apparatus and images at all stages in order to develop abstract thinking and understanding.

On a daily basis, we encourage our children to ask questions, discuss their work and explain their thinking, tackle problems and, through perseverance, use what they know to find an accurate answer. Problem solving and reasoning skills are built into most lessons through the White Rose Maths materials. We believe firmly that children should not only feel confident in their number work but they should also be able to apply it to different contexts and problems.

Teachers assess on a daily basis using the Daily Planning and Assessment sheet. These assessments are used to inform and adapt future lessons based on children's strengths and weaknesses.

At the end of each White Rose Mathematics unit, teachers assess children's success and identify aspects of the learning that will need to be returned to in future teaching. The results of these assessments form part of a termly evaluation that is discussed with the Mathematics Subject Leader. From Year 2, we introduce the WRM end of block assessments in order to assist our assessment of the children.

Once a term from Year 3, children complete the NFER or SATs papers for their year group. These are to assess general progress against national expectations and to identify specific needs within a year group. In years 1 and 2, we use a combination of end of block assessments and teacher assessment to formulate these judgements.

Home learning is supported by White Rose Maths and Carol Vorderman's 'Maths Factor'. Parents are able to find out what topics we are studying through their class' term-on-a-page.

Through these approaches, we believe that:

Everyone can do maths!

Consolidation of essential mathematics skills

Year 1	**Autumn 1**	Count to and across 20, forwards and backwards in ones
	Autumn 2	Mental addition and subtraction of numbers to 10
	Spring 1	Count to and across 50, forwards and backwards in tens
	Spring 2	Learn number pairs to 10 and associated facts
	Summer 1	Mental addition and subtraction of numbers to 20
	Summer 2	Count to and across 100, forwards and backwards in twos
Year 2	**Autumn 1**	Learn number pairs to 20 and derive and use related facts to 100
	Autumn 2	Learn number pairs to 20 and derive and use related facts to 100
	Spring 1	Learn doubles to 10 Learn time facts- days of the week, months of the year in order
	Spring 2	Learn 2 x table
	Summer 1	Learn 10 x table
	Summer 2	Learn 5 x table
Year 3	**Autumn 1**	Consolidate 2, 10 and 5 x tables
	Autumn 2	Consolidate 2, 10 and 5 x tables
	Spring 1	Learn 3 x table
	Spring 2	Learn 4 x table
	Summer 1	Learn 8 x table
	Summer 2	Consolidate 2, 10, 5, 3, 4 and 8 x tables
Year 4	**Autumn 1**	Consolidate 2, 10, 5, 3, 4 and 8 x tables
	Autumn 2	Learn 6 x table
	Spring 1	Learn 11 and 12 x tables
	Spring 2	Learn 7 x table
	Summer 1	Learn 9 x table
	Summer 2	Consolidate all tables facts
Year 5	**Autumn 1**	Consolidate all tables facts
	Autumn 2	Consolidate all tables facts
	Spring 1	Learn measurement and time facts- decimal length, capacity and weight facts; days in each month, seconds in a minute, minutes in an hour, hours in a day, days in a year.
	Spring 2	Consolidate written methods
	Summer 1	Learn fraction, decimal and percentage facts- equivalence halves, quarters, thirds, fifths, tenths, eighths.
	Summer 2	Consolidate written methods
Year 6	**Autumn 1**	Consolidate written methods
	Autumn 2	Consolidate written methods
	Spring 1	Consolidate measurement and time facts- decimal length, capacity and weight facts; days in each month, seconds in a minute, minutes in an hour, hours in a day, days in a year.
	Spring 2	Consolidate written methods
	Summer 1	Consolidate fraction, decimal and percentage facts- equivalence halves, quarters, thirds, fifths, tenths, eighths.
	Summer 2	Consolidate written methods