



Curriculum Statement for the Teaching and Learning of Mathematics

Our values-based school nurtures curiosity and creativity through an inspiring, broad and engaging curriculum, where learning is at the heart of all that we do. Our children learn to become resilient and self-assured in an environment where safety is paramount. Everyone is challenged and encouraged to thrive and achieve as individuals, preparing them for their role as caring and active citizens in modern Britain.

Intent	<p>The intent of our mathematics curriculum is to provide children with a foundation for understanding number, reasoning, thinking logically and problem solving with resilience so that they are fully prepared for the future. The curriculum ensures the children are exposed to a range of fluency, reasoning and problem-solving opportunities on a daily basis, developing mastery skills across the school. We follow the White Rose maths scheme and use Classroom Secrets and Pearson Active learn to help promote learning in a real-life context. The children are exposed to a wide range on mathematical resources using concrete, pictorial and abstract which helps them to explain and reason to show their understanding. We use a PAC approach to our lessons P= problem, A= application, C= challenge, which helps our learners understand that exploring a range of methods helps promote life long learning in preparation for everyday life.</p>
---------------	--

	The Teaching of Fluency	The Teaching of Reasoning	The Teaching of Problem Solving	Mastery	Applied Vocabulary
Underpinned by	<p>Fluency is an important part of every lesson at Buckton Vale. The children complete a Flashback 4 sticker daily which supports sticky knowledge learning as it recaps on topics already covered consistently throughout the year. The lesson also involves varied fluency questions to consolidate the learning daily. Numbots and TTRockStars are also used in school and at home to assist with fluency in number bonds and times tables</p>	<p>Reasoning is a vital element of the curriculum. Each lesson the teacher models a range of examples during the whole part of the lesson and the children are given opportunities to show their application and understanding by explaining and answering a range of questions.</p>	<p>Problem solving is applied in a variety of ways in each lesson. The children are exposed to problem solving challenges as a group which helps discussion and mathematical application and address common misconceptions, before moving to a variety of problem-solving challenges.</p>	<p>Teaching for mastery is very important, our aim is for all pupils to gain a deep, long-term and secure understanding of maths allowing them to use variation, fluency, representation and thinking to a range of mathematical concepts.</p>	<p>Stem sentence are used and displayed in classrooms to assist with developing confidence in explaining mathematical reasoning and problem solving verbally and in books.</p>

Im	White Rose	Maths Hub	Flashback 4/Power Up
-----------	-------------------	------------------	-----------------------------



	<p>For consistency, coverage and progression the whole school follow the White Rose scheme of learning. We also use Classroom Secrets to ensure that varied fluency, reasoning and problem-solving opportunities are tackled every lesson.</p> <p>School also uses Active learn Power maths as a visual tool to show the children a variety of visual applications and discover tasks to promote mathematical discussions.</p>	<p>As a school we have been involved in the Mastery approach journey, this has helped us refocus how maths is taught. Following COVID we are using the hub for CPD to assist TAs to be confident in leading small focused interventions to close gaps identified in the classroom.</p>	<p>All classes use Flashback4s daily to assist with sticky knowledge. Children are regularly exposed to Power Up activities that reinforce learning in a challenging way with plenty of variation to suit all learning styles.</p>
--	--	--	--

	Number bonds and times tables	Inter school competitions	CPD
Implementation	<p>All children have an access to Numbots (KS1) and TTRockStars to assist with the learning, fluency and rapid recall of number bonds and times tables. EYFS are encouraged to use minute maths at home which is a White Rose add on free to use.</p>	<p>As a school we are linked with Mossley schools, we hold termly competitions for UKS2 pupils. A inter-school times table competition for Year 4 students. A number of Year 6 pupils are invited to Mossley Hollins High School to take part in HOT maths sessions with pupils from other schools. We also promote TTRockStars days in the school and regularly hold competitions with classes and against classes.</p>	<p>School has engaged in the NW Maths hub for a number of years, this year our focus is to enhance the skills of all Tas to support the delivery of maths in small group interventions.</p>



	Pupil Voice	Evidence and Knowledge	Evidence in Skills
Impact outcomes	<p>Pupils are keen to share their mathematical thinking and understanding and acknowledge that it is ok if you go in the 'pit of learning' as we can learn from our mistakes.</p> <p>When we hold competitions and events the children are always enthusiastic and keen to take part.</p> <p>The pupils who attend HOT maths are happy to share what they have been learning and all enjoy the opportunity it provides showing a confidence and love of the subject.</p>	<p>All books show a range of challenges and allow children to move between their own level of challenge when selecting their independent work.</p> <p>Questions purposely expose children to how and when maths is used in everyday life and is a skill to support them become successful citizens.</p> <p>A range of strategies are taught to allow all children to find their own methods to tackle mathematical problems</p>	<p>Lessons are structured to provide a range of mathematical opportunities which can be applied outside school and in other areas of the curriculum.</p> <p>Children are given fix-it opportunities to address simple misconceptions and support them to understand the importance of checking their calculations.</p> <p>Books will show progression across all years and are consistent with the approach to using CPA</p>