Eastcombe Primary School

Curriculum Statement for Maths



At Eastcombe Primary School, we are committed to providing our children with a curriculum that has a clear intention and impacts positively upon their needs.

National Curriculum Intent

The national curriculum for mathematics intends to ensure that all pupils:

- 1. Become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- 2. Reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- 3. Can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions

Mathematics is an interconnected subject in which pupils need to be able to move fluently between representations of mathematical ideas. The programmes of study are, by necessity, organised into apparently distinct domains, but pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge to science and other subjects. The expectation is that the majority of pupils will move through the programmes of study at broadly the same pace. However, decisions about when to progress should always be based on the security of pupils' understanding and their readiness to progress to the next stage. Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material should consolidate their understanding, including through additional practice, before moving on.

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Intent	When teaching mathematics at Eastcombe, we intend to provide a curriculum which caters for the needs of all individuals and sets them up with the necessary skills and knowledge for them to become successful in their future adventures. We aim to prepare them for a successful working life. We incorporate sustained levels of challenge through varied and high quality activities with a focus on fluency, reasoning and problem solving. Pupils are required to explore maths in depth, using mathematical vocabulary to reason and explain their workings. A wide range of mathematical resources are used and pupils are taught to show their workings in a concrete, pictorial and abstract form wherever suitable. They are taught to explain their choice of methods and develop their mathematical reasoning skills. We encourage resilience and acceptance that struggle is often a necessary step in learning. Our curriculum allows children to better make sense of the world around them relating the pattern between mathematics and everyday life. Reception children to become proficient in the Early Learning Goals linked to problem solving, reasoning and numeracy in the EYFS curriculum.					
Underpinned	The teaching of fluency	The teaching of problem solving	The teaching of reasoning	A vocabulary rich environment		
by	We intend for all pupils to become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.	We intend for all pupils to solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions	We intend for all pupils to reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language	We intend to create a vocabulary rich environment, where talk for maths is a key learning tool for all pupils. Pre teaching key vocabulary is a driver for pupil understanding and develops the confidence of pupils to explain mathematically.		
Implementation	We implement our approach through high quality teaching delivering appropriately challenging work for all individuals. We have a calculations policy that has been developed and agreed after using the National Curriculum objectives and methods. In using our policy, we can be confident throughout the school, that the hard work we put into teaching the children each year to calculate, will be consolidated and extended the following year. By agreeing on the use of strategies and mathematical language the children will be taught in a consistent way in all classes, developing their understanding as they progress through the school. We use a range of mathematical manipulatives in classrooms to aid and support our children in their learning, these include; Numicon, Base10, counters, 10s frames, fraction walls etc. We also use a range of planning resources including those provided by the White Rose Hubs, NCETM, NRICH and mathsbox. Throughout each lesson formative assessment takes place and feedback is given to the children through marking and next step tasks to ensure they are meeting the specific learning challenge. The teaching of maths is also monitored as part of the school's monitoring cycle through book scrutinies, planning scrutinies, learning walks, lesson observations and pupil voice.					

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	We continuously strive to better ourselves and frequently share ideas and things that have been particularly effective. We also take part in training opportunities and regional networking events. Through our teaching we continuously monitor pupils' progress against expected attainment for their age, making formative assessment notes where appropriate and using these to inform our discussions in termly Pupil Progress Meetings and update our summative school tracker. We use White Rose assessments termly to determine children's progress and attainment. The main purpose of all assessment is to always ensure that we are providing excellent provision for every child. We carefully plan small group interventions to target children who need more time to consolidate their learning - these interventions may come in the form of a pre-teach, fluency work, or revision sessions. Pupils who grasp concepts rapidly should be challenged through being offered rich and sophisticated problems before any acceleration through new content.					
Impact	At the end of each year, pupils have gained a deepening understanding of core maths skills.					
	PUPIL VOICE	EVIDENCE IN KNOWLEDGE	EVIDENCE IN SKILLS	BREADTH AND DEPTH		
	Through discussion and feedback,	Pupils know how and why maths is	Pupils use acquired	Teachers plan a range of		
	children talk enthusiastically about their	used in the outside world and in	vocabulary in maths	opportunities to use maths inside		
	maths lessons and speak about how they	the workplace. They know about	lessons. They have the	and outside school		
	love learning about maths. They can	different ways that maths can be	skills to use methods			
	articulate the context in which maths is	used to support their future	independently and show			
	being taught and relate this to real life	potential.	resilience when tackling			
	purposes.		problems.			