

The Waterside Way – Maths Curriculum

Intent, Implementation and Impact

INTENT	IMPLEMENTATION
At Waterside Primary Academy, maths, reading and	The content and principles underpinning our maths curriculum at Waterside Primary Academy reflect those found in high-performing
writing are at the heart of a child's learning and	education systems internationally, particularly those of east and south-east Asian countries such as Singapore, Japan, South Korea
therefore form key elements of every learning	and China.
experience.	
	These principles and features characterise this approach and convey how our curriculum is implemented:
During maths lessons at Waterside, we strive for all	. Teachers reinforce as supertation that all children are conclude of achieving high standards in mothematics
children to develop the following three attributes of	 Teachers reinforce an expectation that all children are capable of achieving high standards in mathematics. The large majority of children progress through the surrigulum content at the same page. Differentiation is achieved by
successful mathematicians:	 The large majority of children progress through the curriculum content at the same pace. Differentiation is achieved by emphasizing deep knowledge and through individual support and intervention.
1 Become fluent in the fundamentals of mathematics	Teaching is undernighted by methodical curriculum design and supported by carefully crafted lessons and resources to foster
2. Be able to reason mathematically	deep conceptual and procedural knowledge.
3. Can solve problems by applying their mathematics	 Practice and consolidation play a central role. Carefully designed variation within this builds fluency and understanding of
, , , , , , , ,	underlying mathematical concepts.
These skills are embedded within maths lessons and	 Teachers use precise questioning in class to test conceptual and procedural knowledge and assess children regularly to
developed consistently over time. We are committed to	identify those requiring intervention, so that all children keep up. Children's explanations and their proficiency in articulating
ensuring that children are able to recognise the	mathematical reasoning, with the precise use of mathematical vocabulary, are supported through the use of stem sentences.
importance of maths in the wider world and that they	
are also able to use their mathematical skills and	To ensure whole-school consistency and progression, the school uses the DfE approved 'Power Maths' scheme, which is fully aligned
knowledge confidently in their lives in a range of	with the White Rose Maths scheme. The school is currently working as part of the DfE funded Maths Hubs programme to ensure that
different contexts.	start at all levels understand the pedagogy of the approach. New concepts are shared within the context of an initial related problem,
We want all children to enjoy mathematics and to	ability pairings as well as promoting an awareness of maths in relatable real-life contexts that link to other areas of learning
experience success in the subject, with the ability to	ability pairings, as well as promoting an awareness of maths in relatable rear-me contexts that link to other areas of learning.
reason mathematically.	Children are encouraged to solve problems each day through the use of concrete resources, pictorial representations and abstract
,	thinking (the C-P-A approach). This helps children tackle concepts in a tangible and more comfortable way.
We are committed to developing children's curiosity	
about the subject, as well as an appreciation of the	Teachers use careful questioning to draw out children's discussions and their reasoning. The class teacher then leads children through
beauty and power of mathematics.	strategies for solving the problem, including those already discussed. Children then progress to their Practice Books, where each
	question varies one small element to move children on in their thinking. Children complete their practice independently, ending in a
To achieve our intent, we provide a rich, sequenced and	'Reflect' section where children reveal the depth of their understanding before moving on to more complex related problems.
progressive curriculum which caters for the needs of all	Nothernatical tension are tought in blocks, to enable the achievement of (meeters, avertime. Each lesson above are video the means to
pupils through varied and high quality activities. Pupils	wathematical topics are taught in blocks, to enable the achievement of mastery over time. Each lesson phase provides the means to
mathematical vocabulary to reason and explain their	exploratory investigative tasks within the lesson as appropriate
workings.	exploratory, investigative tasks, within the lesson as appropriate.
	Throughout the mathematical journey at Waterside, children develop a growth mindset alongside the 'Power Maths Pals' (Flo, Astrid,
At the core of our curriculum is the concrete, pictorial	Dexter and Ash), who inspire our children to adopt a 'Power Maths Mindset'.
and abstract approach to maths. Children are taught	
and encouraged to explain their choice of methods and	
develop their mathematical reasoning skills. We	
encourage resilience and conceptual variation and an	
acceptance that challenges and mistakes are often a	
necessary step in learning.	
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IMPACT

Maths lessons are engaging and well-resourced with the pupils acknowledging that the journey to finding an answer is the most important factor. Our children are resilient and they make measurable progress against the National Curriculum objectives.

Children are keen to attempt a range of problems, choosing the equipment they need to help them to learn, along with the strategies they think are best suited to each scenario.

Children are developing their skills in being articulate and are able to reason verbally, pictorially and in written form.

Well-planned sequences of learning support pupils to develop and refine their maths skills.

Children are able to independently apply their knowledge to a range of increasingly complex problems.

The school measures impact through:

- Weekly assessment against our Learning Journey Maps.
- Daily interleaving quizzes to assess retention of skills and knowledge
- NFER testing to measure attainment against a national standardised score Termly
- Pupil Voice to assess learning