

Maths at West Jesmond



			Constitution Constitution
The aims of our curriculum: Success for all Every chi	ld can enjoy and succeed	in mathematics as long as	they are given the appropriate learning opportunities.
Fluency We aim for our 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.	Reas We aim for our pupils to: Use with confidence and clarity to mathematical reasoning.	ioning e spoken and written language e explain and justify	Problem Solving We aim for our pupils to: Have a deep conceptual understanding of mathematical concepts and be flexible and resourceful problem solvers.
Our Intent		Developing disciplinary	
Maths is a beautiful and awe-inspiring subject which has the ability to excite,		Pupils need to develop their disciplinary knowledge (how to work things about,	
empower and amaze. We want all children to think deeply about Maths, develop conceptual understanding and communicate their ideas confidently.		reason and problem solve) in maths lessons. They will be taught to make links across different mathematical components to build this knowledge in their long term memory	
Curriculum Design and implementation.			we would expect to see in a lesson.
 Within West Jesmond we prioritise the integration of fluency, reasoning, and problem- solving within every lesson. Our objective is to ensure children receive high-quality, engaging mathematics instruction, wherein whole-class teaching includes all learners. Topics are covered following a 'step-by-step' approach that promotes deeper exploration of concepts. Utilising the Concrete, Pictorial, Abstract (CPA) methodology across all year groups facilitates a robust understanding of mathematical principles. The "Mastering Number" programme is introduced in Reception through Year 2, employing Rekenrek resources to ensure that foundational number sense is deeply embedded. Strategic questioning supports teachers in identifying and addressing misconceptions, thereby enhancing comprehension. 		 All lessons should incorporate elements of fluency, reasoning and problem solving. Children will have access to high quality, engaging mathematics. Whole class - teaching all children in class, together, most of the time. Flashback4 Retrieval questions / 'low stake' quizzes / 'True or False?' Covering topics in detail over time – 'step by step approach' Spending longer on one idea – space and time to experience and apply. 	
How we ensure every child achieves in Maths (First 20%)		 Questions to probe understanding and deep learning. Task adaptation and scaffolding for pupils. There should be flexibility within lessons and access to diving deeper questions. 	
Intervention – 'Keep up not catch up.' ♦ Maths pre teach sessions are delivered by teachers with a focus on vocabulary and		 Use of misconceptions to further understanding of key concepts. 	
mathematical structures.			ematical language – use of 'stem sentences' to help
 Post teach same day interventions undertaken when needed with flexible groups of pupils. – 'Maths Masterclasses.' 		pupils to communicate their reasoning and thinking effectively.	
'Talk 4 Number' to enhance pupil vocabulary acquisition need support and encouragement.	-for pupils in Y3 and Y4 who	the basis of ev	o students make, refine, and explore conjectures on vidence and use a variety of reasoning and proof confirm or disprove those conjectures.
Useful Links & Resources		Classroom Display / What we would expect to see	
Additional high quality materials that enhance the delivery of lessons may include:		Working Walls -Regularly updated for each unit of work with : Key vocabulary	
 NCETM Teaching for Mastery resources 		Stem sentences Models & images	
 NCETM Progression maps KS1 & KS2 		Written methods	
 NRICH for rich and sophisticated problems. 		Multiplication Tables	
 Gareth Metcalfe "I See Reasoning," "I See Proble 	em solving."	Maths resources freely	available.
 Craig Barton "Diagnostic questions" 			
 Transum.org, Jo Boaler youcubed.org 			
 "Maths No Problem" Teacher textbooks. Online – Mathletics, Time Tables Rockstars. 			
 Online – Mathletics, Time Tables Rockstars. Numberblocks / Maths Story books. 			
Feedback "Marking and evidence-recording strategies should be efficient, so that they do not steal time that would be better spent on lesson design and preparation. Neither should they result in excessive workload for teachers." NCETM		order for pupils to develo	ctive and efficient mental strategies are taught in op 'true' fluency. The expectation is that pupils will be es tables facts up to 12 x 12 by the end of Y4. <i>Whole</i> <i>view document in place</i> .
	adiau Taashara mark		
Immediate/Feedforward/Summary — see separate p			hods. The West Jesmond Calculation policy that each
with green and pink pens – pink highlighting misconc	•		porates examples both from the NCETM calculation
answers : Verbal feedback, AFL to identify pre and post teach groups, Pupil		guidance and the White Rose scheme of learningsee separate guidance.	
self-marking in purple pen.			
Assessment Summative:		Widor Curriculum Links	and Opportunities
 End of block White Rose assessments throughout the y 	/ear.	Wider Curriculum Links a Key mathematical conce	and Opportunities pts are taught and developed further through a range
• Termly: Autumn / Spring / Summer White Rose Arithm	etic and reasoning	of theme based cross curricular links. Connections will be made between the	
assessments.Year group data meetings			and real life. Projects include Enterprise and careers
 Statutory assessments at the end of Key stage 2. 			TEM" week takes place with the aim of highlighting
Maths Year Group Milestones updated on Sonar based	on NCETM Curriculum		bject for a wide range of careers.
prioritisation materials.		and importance of the su	
 Formative: On-going teacher assessment, mini quizzes, work in bo 	oks allow us to adapt our		
planning and tackle misconceptions as they arise.			
• White Rose end of block mini assessments / Quizzes.			