



The aims of our curriculum: Success for all Every child 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 particulated and include and complex to the ability to recall and	Reas We aim for our pupils to: Use with confidence and clarity to mathematical reasoning.	ioning e spoken and written language 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.	
apply knowledge rapidly and accurately.		Developing dissiplinery	knowledge	
Our Intent Maths is a heautiful and awa incriring subject which h	as the shility to excite	Developing disciplinary	<u>Knowledge.</u>	
empower and amaze		Pupils need to develop their disciplinary knowledge (now to work things about,		
We want all children to think deeply about Maths, develop conceptual		reason and problem solve) in maths lessons. They will be taught to make links		
understanding and communicate their ideas confidently.		across different mathematical components to build this knowledge in their		
Curriculum Design and implementation		Lessen Design . Whet we would evenet to see in a lessen		
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.		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. • Elashback& Retrieval questions ('low stake' quizzes / 'True or		
facilitates a robust understanding of mathematical principles. The "Mastering Number"			cilleval questions / low stake quizzes / lide of	
programme is introduced in Reception through Year 2, employing Rekenrek resources		Faise:	cs in datail over time (step by step approach)	
to ensure that foundational number sense is deeply embedded. Strategic questioning		Covering topics in detail over time – step by step approach		
supports teachers in identifying and addressing misconceptions, thereby enhancing		 Spending longer on one idea – space and time to experience and 		
comprehension.		appiy.		
To assist pupils in articulating their reasoning, we incorporate precise mathematical vocabulary and 'stem sentences'. Our curriculum ultimately fosters resilience and a 'can do' attitude, equipping students for future mathematical success.		CPA approach "Mastering N "Mastering N	umber" programme in R, Y1, Y2 – utilising Rekenrek. umber" programme within Y4/5 – focus on times	
		tables.		
How we ensure every child achieves in Maths (First 20%)		Questions to	probe understanding and deep learning.	
		 Task adaptation and scattolding for pupils. There should be flowibility within losses and access to diving descent sweetly. 		
Intervention – 'Keep up not catch up.'		flexibility with	in lessons and access to diving deeper questions.	
 Maths pre teach sessions are delivered by teachers wit mathematical structures 	h a focus on vocabulary and	Use of miscor	nceptions to further understanding of key concepts.	
 Post teach same day interventions undertaken when n 	eeded with flexible groups of	Precise mathe	ematical language – use of 'stem sentences' to help	
pupils. – 'Maths Masterclasses.'		pupils to com	municate their reasoning and thinking effectively.	
'Talk 4 Number' to enhance pupil vocabulary acquisition	n -for pupils in Y3 and Y4 who	 Teachers help 	students make, refine, and explore conjectures on	
need support and encouragement.		the basis of e	vidence and use a variety of reasoning and proof	
		techniques to	confirm or disprove those conjectures.	
Useful Links & Resources		Classroom Display / What	at we would expect to see	
Additional high quality materials that enhance the delivery of lessons may		Working Walls -Regularly updated for each unit of work with :		
include:		Key vocabulary		
		Stem sentences		
NCETM Teaching for Mastery resources		Models & images		
NCETM Progression maps KS1 & KS2		Written methods		
 NRICH for rich and sophisticated problems. 		Multiplication Tables		
 Gareth Metcalfe "I See Reasoning." "I See Prob 	lem solving."	Maths resources freely available		
 Craig Barton "Diagnostic questions" 	0			
 Transum.org, Jo Boaler youcubed.org 				
 "Maths No Problem" Teacher textbooks. 				
 Online – Mathletics. Time Tables Rockstars. 				
Numberblocks / Maths Story books.				
Feedback		Montal calculation office	ctive and officient mental strategies are taught in	
"Marking and evidence-recording strategies should	he efficient so that			
they do not steal time that would be better spent of	on lesson design and	order for pupils to develop true fluency. The expectation is that pupils will be		
preparation. Neither should they result in excessive	workload for	able to rapidly recall time	es tables facts up to 12 x 12 by the end of Y4. Whole	
teachers." NCETM		school Times tables over	view document in place.	
Immediate (Foodforment (Comme	noliny Torchard			
immediate/reedforward/Summary — see separate	policy. Teachers mark	Written calculation met	hods. The West Jesmond Calculation policy that each	
with green and pink pens – pink highlighting misconceptions or incorrect		year group follows incorr	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 quidance.	
self-marking in purple pen.				
Assessment				
Summative:		Wider Curriculum Links	and Opportunities	
End of block White Rose assessments throughout the	year.	Key mathematical conce	Key mathematical concepts are taught and developed further through a range	
Termly: Autumn / Spring / Summer White Rose Arithmetic and reasoning		of theme based cross curricular links. Connections will be made between the		
assessments.		different areas of maths and real life. Drojects include Enterprise and carears		
rear group data meetings Statutory assessments at the end of Key stage 2		workshops. An appual "STEN" work takes along with the situal field but		
Maths Year Group Milestones undated on Sonar based on NCFTM Curriculum		worksnops. An annual "STEM" week takes place with the aim of highlighting		
prioritisation materials.		the importance of the su	bject for a wide range of careers.	
Formative:				
On-going teacher assessment, mini quizzes, work in b	ooks allow us to adapt our			
planning and tackle misconceptions as they arise.				
White Rose end of block mini assessments / Quizzes.				

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