Intent - Maths - The Oakmeadow Way	Implementation	Impact
At Oakmeadow CE Primary and Nursery School, we believe that anybody and everybody is a mathematician. Our aim is for all children to	As a Maths Hub primary lead school in Salop, Herefordshire and Wolverhampton, our learning- teaching approach, is small steps and steers	Children enjoy maths and believe they 'can do' maths. They can use mathematical vocabulary to explain, justify and generalise Children are able
develop a positive mind-set and a passion for maths through fostering an environment of risk- taking, mistake making, investigating, reasoning	towards 'Teaching for Mastery' where the focus is on creating as many relationships and links between the skills and concepts – depth as	to link new knowledge to existing prior knowledge - small steps planning.
and learning together.	opposed to acceleration. We want our children to understand that it's the process that matters,	Children build on what they know and can do – as small steps planning and research into
'The answer is only the beginning.' - Chinese proverb.	not just the winning answer.	understanding long- term memory and limitations on working memory.
It's the process that matters, not the winning answer.	A key feature of the teaching for mastery approach we are developing in our school is the precise design of lessons through use of CPA, modelling, pupil activities, practise questions and	Sequence knowledge and skills taught through progressional MTP so that children develop deep and sustainable understanding.
At our school, we are developing a concrete, pictorial, abstract approach to develop a secure	intelligent practice. The arrangement of tasks and exercises aim to draw children's' attention to	Children have opportunity to practice so they are
understanding of mathematical principles and ideas. Throughout school all children will have the opportunity to use manipulatives such as	patterns, structure and mathematical relationships, therefore providing 'intelligent practice' and the opportunity to deepen	fluency in reduces – reducing the impact on the working memory so they can tackle tasks that require deeper thinking.
Numicon, Base ten, place value counters, place value boards etc. to support learning. Questions asked by the maths teacher will allow children to think deeper. Manipulatives can be used to	conceptual understanding. Lessons are carefully designed, often using small number, to ensure the maths concept is exposed.	Daily review and weekly review supports children to develop their long-term memory.
facilitate this.	Our lessons are built on the following principles of a mastery lesson:	Reasoning is at the heart of the lessons – they reason and explain their thinking.
Children will often work with a maths partner. The partner is normally pre chosen by the	• Coherence – making connections so that	Class teachers intervene and provide feedback
teacher in advance of the lesson. The	<ul> <li>steps are easier to take</li> <li>Variation – procedural and conceptual</li> </ul>	Class teachers intervene and provide feedback when a child/ children are having difficulty 'keep-
partnership should allow and encourage	<ul> <li>Representation and structure – carefully</li> </ul>	up,' rather than 'catch-up'. This may be within a
opportunities to develop reasoning skills but also learning skills such as speaking, listening, turn	planned prior to the lesson	lesson or at another time in the day. There may also be occasions when children are pre taught a

taking and co-operation. This also provides an	• Mathematical thinking – chains of	concept prior to whole class teaching. Rapid
opportunity for children to demonstrate their	reasoning	graspers are challenged by having opportunities
understanding by explaining their learning.	<ul> <li>Fluency – number and table facts.</li> </ul>	to deepen their learning through carefully
We have been part of the NCETM for the past		chosen challenges/ problem solving activities.
four year, and were involved in the England-	Lessons are carefully designed to include	
China Teacher exchange programme, where we	relevant and efficient mental, written	
hosted two Chinese teachers for two weeks. This	calculations and informal recordings (jottings) to	CPD is through a whole-school lesson study
fantastic experience has enabled us to consider	trace our thinking as fundamental tools to help	approach to support staff with subject
and adapt our pedagogy and practice, and	with solving word problems and problem solving	knowledge and pedagogical approaches using
further develop mathematics teaching for our	investigations. We have a real focus on	the research from Rosenshine's Principles in
children.	mathematical thinking and reasoning, using	Action. This lesson study should help support
We are developing a teaching for mastery	effective representation, models and images to	teachers with their lesson design and structure.
approach.	help us. We aim to expose the maths structures	
	through different representations and encourage	We believe that sharing practice through
Staff have high expectations for all children and	children to develop their own representations	collaborative lesson design, observation of
they believe that all children have the ability to	and models of proof so that all children embed	lessons and post-lesson discussions helps us to
succeed. All children within a year group are	the depth in conceptual understanding as well as	continually develop our pedagogy and practice.
taught the same content at the same time but	being confident with the procedural fluency.	
there may be opportunities for challenge for the	being connuclie with the procedular nucley.	Performance data is above national and we
rapid graspers and lessons are carefully designed	Fluency in number is taught through a sound	believe this is because we focus on developing a
to support all learners to access the maths.	conceptual knowledge of place value. We aim to	love for maths, a clarity in maths and a
	develop children's ability to have rapid recall of	confidence our children can take to secondary
	times tables up to 12 (which is needed by the	school and further.
	end of year 4) so that related multiplication and	
	division facts is at the heart of our vision to	
	empower pupils to be proficient at number	
	crunching.	