



Mathematics Learning Journey at The Redeemer

Mathematics makes sense of the numbers, measures, shapes and statistics that we use every day in our lives.

Subject Leaders: Mrs Joanne Prescott and Mrs Clare Power

Subject Team: Governors Revd. Chris Anderton and Mr. G. Swanton

Intent:

At The Redeemer, we think that mastery of anything takes time, consequently we talk about the 'journey to mastery'. It is our intention to teach all children, to develop the knowledge, understanding and skills necessary to use mathematics in their everyday lives, today, and in the future. In the words of one pupil, 'We need maths for real life situations such as: shopping, mortgages and debt.' We aim to develop our students' learning of mathematics, by providing opportunities for a conceptual understanding of this subject, where the journey is broken down into small skill steps and units of understanding. By carefully building up the planning experiences in different contexts, our pupils move from maths fluency, to being able to apply their knowledge and skills to solve new, real-life problems, whilst also supporting other areas of the curriculum. Through talk, children will be encouraged to articulate their mathematical reasoning. As teachers, we want all pupils in our care to develop a positive attitude towards mathematics, so that they believe they can do maths!

Implementation:

In Early Years, our children learn from the NCETM – Mastering Number Scheme. Stories and songs are shared to introduce maths in concrete learning. Goldilocks invites the Three Bears to tea – each bear will need 1 dish, 1 spoon...







The Concrete Pictorial Abstract (CPA) approach of learning is taught where concrete resources, pictorial representations and abstract numbers are used, both across year groups and individual lessons. Our tasks are not differentiated. Challenge will be available to all through the opportunity for deep learning, reasoning and open ended challenging problems.

SEND (Special Educational Needs Disabilities) children are given personalised outcomes. Mental Maths will be taught in a separate lessons.

In Key Stage One, the agreed concrete resources step to agreed pictorial representations and the recording of abstract numbers as shown below. Number bonds, odds and evens, doubles and halves are also learnt.



Rekenrek



Numicon









Tens Frame





1



Base 10





In Key Stage 2 as the value of numbers becomes larger, and smaller with fractions and decimals, the journey leads from...



Times tables are practised by chanting, singing and on the computer using TT Rock Stars.

Impact:

Once a secure understanding of a given mathematical concept has been mastered, the scaffolding of the concrete resources and pictorial representations is withdrawn - to enable our children to become accurate and efficient mathematicians.





The journey to become accurate and efficient mathematicians results in the learning of formal abstract methods for addition, subtraction, multiplication and division to solve the problems that will be met in everyday life.

At The Redeemer we believe - Practising Makes Permanent!



We assess children's mathematics during each lesson - how they have developed their knowledge and understanding of: Place Value, Addition, Subtraction, Multiplication, Division, Fractions, Ratio and Proportion, Algebra, Measurement, Geometry and Position and Statistics. Below, is a guide to the different methods and times of assessment.

In class	In class	In class
Number Bonds Check	Times tables Check	Homework Calculations
WRMH End of Block	WRMH Termly	Key Stage 1
Assessments	Arithmetic Assessments	SATs
Termly Puma	Y4 Multiplication	Key Stage 2
Assessments Y1-Y6	Tables Check (MTC)	SATs

Maths Assessment at The Redeemer

What?	When?	How?
Teacher	Always	Teachers are constantly assessing the
Assessment		learning of maths in each lesson.
		Teaching assistants inform teachers of the
		learning of children in their morning maths
		groups.
		Number bonds check
		Times tables check
		Calculations homework
		WRMH End of Block Assessments
		WRMH Arithmetic Assessments
Puma Assessments	3x year	In class
(Practice SATS		
for Y2/Y6)		
KS1 Statutory	Summer	Children sit the Statutory KS1 Maths
Assessment Maths	Term	Assessment
Year 4 MTC	June	Administered by school between
		Monday 5th June to Friday 16th June 2023.
Statutory KS2	Summer	Administered by school:
Maths		Thursday 11 May 2023 Paper 1 (Arithmetic)
		Thursday 11 May 2023 Paper 2 (Reasoning)
		Friday 12 May 2023 Paper 3 (Reasoning)

