

Our Lady of Perpetual Succour Catholic Primary School

Maths Policy



We learn to love everyone as Jesus loves us

Aims and Values

Intent

Maths is a journey and long-term goal, achieved through exploration, clarification, practice and application over time. Mathematics is of central importance to our modern society. It is an essential part of everyone's daily life and critical to science, technology, finance, and engineering.

Our 3 levels of maths learning:

- Fluency in the fundamentals of Mathematics
- Ability to reason mathematically
- Applying Mathematics to solve real-world problems.

At Our Lady's, this learning is embedded within maths lessons and developed consistently over time. At each stage of learning, children should be able to demonstrate a deep, conceptual understanding of maths, and develop confidence, fluency and accuracy to solve problems and reason logically. We are committed to developing children's curiosity about the subject, as well as an appreciation of the beauty and power of Mathematics.

Implementation

How is Maths taught?

EYFS

In Early Years maths is taught through varied activities following the Whiet Rose Maths EYFS scheme of work, with additional support from the Mastering Number nationwide project. All children are given ample opportunity to develop their understanding of mathematics. Lessons in the Early Years aim to do this through varied activities that allow children to use, enjoy, explore, practise and talk confidently about mathematics and early number.

KS1 and KS2

We follow the Maths No Problem textbook and workbook for mastery maths teaching. These programmes of study are carefully sequenced, in order to develop a coherent and comprehensive conceptual pathway through the mathematics. Learning is broken down into small, connected steps, building from what pupils already know. This mastery approach uses concrete, pictorial, abstract (CPA) approach, the principle of which is for children to have a true understanding of a mathematical concept, they need to master all three phases within a year group's scheme of work.

When is Maths taught?

In Key Stage 1 and 2, Maths No Problem lessons are held on a daily basis and last for approximately one hour. Children are taught in mixed ability classes. When children start in reception, the organisation is more flexible building up to a daily 45 minute lesson in the summer term.

In addition to Maths No Problem, Key Stage 1 and EYFS use Mastering Number lessons each day for 15 minutes to improve understanding of number.

How we monitor, evaluate and assess teaching and learning in maths?

Subject leaders are continuously monitoring their subject to ensure that it meets the needs of our pupils. Senior Leaders also monitor each curriculum subject. This is done through:

- Learning walks
- Book scrutiny
- Lesson observations
- Pupil surveys and discussions
- Staff surveys and discussions.

Maths is assessed by the class teacher through questioning, marking, T.A feedback and pupil self-assessment. During lessons, children's work is observed and monitored to ensure understanding and to correct misconceptions.

Baseline tests are carried out in September, with further assessments in February and June allowing teachers to measure progress and attainment. These tests are Maths No Problem standardised tests. End of Key Stage assessments are held in May for Key Stage 1 and 2 and pupils' attainment is measured against individual, school and national targets.

Impact

The monitoring of the standards of children's work and the quality of learning and teaching mathematics is the responsibility of the S.L.T and the subject leader. The work of the subject leader also involves supporting colleagues in the teaching of mathematics, being informed about current developments in the subject, and providing a strategic lead and direction for the subject in the school.

Feedback

Maths feedback is given in many ways and should, where possible, be given within the lesson, preferably at the point of error. Immediate oral feedback through discussion demonstration and questioning is the most vital and effective feedback possible and therefore should make up the bulk of any maths feedback.

Next steps marking may not always be necessary as the next lesson in the Maths No Problem sequence is normally the next step in learning. However, it is essential that all marking picks up and addresses any misconceptions/mistakes and thorough questioning ensures children have clarified their thinking clearly in their journals before the next lesson. Short-term assessments are an informal part of every lesson. Each day, children will be awarded either a 1 (working below ARE), 2 (working at ARE) or 3 (working above ARE), depending on their chosen method and level of understanding demonstrated throughout the lesson.

What do we learn about in Maths?

Maths is split into the main fundamental categories. More details can be found in the scheme of works Appendix A.

Number and Place Value

Calculations

Shapes/Geometry

Measurement

Ratio & Proportion

Algebra

Statistics

Fractions, Decimals & Percentages

Policy Updated: Sept 2022

Policy Review Date: Sept 2024

APPENDIX A

Maths Scheme of Work – Year 1



PRIMARY MATHS SERIES – YEAR 1 AT A GLANCE

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 10 LESSON BREAKDOWN	Calculations: Addition and Subtraction within 20 LESSON BREAKDOWN	Calculations: Multiplication LESSON BREAKDOWN
Week 2		Geometry – Properties of Shape: Shapes and Patterns LESSON BREAKDOWN	Calculations: Division LESSON BREAKDOWN
Week 3	Calculations: Addition and Subtraction LESSON BREAKDOWN	Measurement: Length and Height LESSON BREAKDOWN	Fractions: Fractions LESSON BREAKDOWN
Week 4		Revision and Mid-year (A) Tests	Number and Place Value: Numbers to 100 LESSON BREAKDOWN
Week 5			Measurement: Time LESSON BREAKDOWN
Week 6			Measurement: Money LESSON BREAKDOWN
Week 7		Review and Remediation	Measurement: Volume and Capacity LESSON BREAKDOWN
Week 8	Geometry – Position and Direction: Positions LESSON BREAKDOWN	Number and Place Value: Numbers to 40 LESSON BREAKDOWN	Measurement: Mass LESSON BREAKDOWN
Week 9	Number and Place Value: Numbers to 20 LESSON BREAKDOWN		Geometry – Position and Direction: Space LESSON BREAKDOWN
Week 10		Calculations: Addition and Subtraction LESSON BREAKDOWN	Revision and End-of-year (B) Tests
Week 11	Calculations: Addition and Subtraction within 20 LESSON BREAKDOWN	Calculations: Multiplication LESSON BREAKDOWN	Review and Remediation
Week 12			

Maths Scheme of Work – Year 2



PRIMARY MATHS SERIES – YEAR 2 AT A GLANCE

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 100 LESSON BREAKDOWN	Statistics: Picture Graphs LESSON BREAKDOWN	Measurement: Time LESSON BREAKDOWN Measurement: Volume LESSON BREAKDOWN
Week 2		Mid-year (A) Tests and Remediation	
Week 3	Calculations: Addition and Subtraction LESSON BREAKDOWN	Calculations: More Word Problems LESSON BREAKDOWN	
Week 4		Measurement: Money LESSON BREAKDOWN	SATs
Week 5	Calculations: Multiplication of 2, 5 and 10 LESSON BREAKDOWN		
Week 6			
Week 7	Calculations: Multiplication and Division of 2, 5 and 10 LESSON BREAKDOWN	Geometry – Properties of Shapes: 2-D Shapes LESSON BREAKDOWN	
Week 8		Geometry – Properties of Shapes: 3-D Shapes LESSON BREAKDOWN	
Week 9	Measurement: Length LESSON BREAKDOWN	Fractions: Fractions LESSON BREAKDOWN	Revision and End-of-year (B) Tests
Week 10			
Week 11	Measurement: Mass LESSON BREAKDOWN	Review and Revisit Topics	
Week 12	Measurement: Temperature LESSON BREAKDOWN		

Maths Scheme of Work – Year 3



PRIMARY MATHS SERIES – YEAR 3 AT A GLANCE

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 1000 LESSON BREAKDOWN	Measurement: Length LESSON BREAKDOWN	Statistics: Picture and Bar Graphs LESSON BREAKDOWN
Week 2			Fractions, Decimals and Percentages: Fractions LESSON BREAKDOWN
Week 3	Measurement: Mass LESSON BREAKDOWN		
Week 4	Measurement: Volume LESSON BREAKDOWN		
Week 5			
Week 6	Mid-year (A) Tests and Remediation		
Week 7	Measurement: Money LESSON BREAKDOWN	Geometry – Properties of Shapes: Angles LESSON BREAKDOWN	
Week 8		Geometry – Properties of Shapes: Lines and Shapes LESSON BREAKDOWN	
Week 9	Measurement: Time LESSON BREAKDOWN		
Week 10			
Week 11			
Week 12		End-of-year (B) Tests and Remediation	

Maths Scheme of Work – Year 4



PRIMARY MATHS SERIES – YEAR 4 AT A GLANCE

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 10 000 LESSON BREAKDOWN	Calculations: Further Multiplication and Division LESSON BREAKDOWN	Measurement: Money LESSON BREAKDOWN
Week 2			
Week 3			
Week 4	Calculations: Addition and Subtraction within 10 000 LESSON BREAKDOWN	Statistics: Graphs LESSON BREAKDOWN	Measurement: Mass, Volume and Length LESSON BREAKDOWN
Week 5		Fractions, Decimals and Percentages: Fractions LESSON BREAKDOWN	
Week 6			
Week 7			
Week 8	Calculations: Multiplication and Division LESSON BREAKDOWN	Measurement: Time LESSON BREAKDOWN	Geometry – Properties of Shapes: Geometry LESSON BREAKDOWN
Week 9		Mid-year (A) Tests and Remediation	
Week 10		Fractions, Decimals and Percentages: Decimals LESSON BREAKDOWN	Geometry – Position and Direction: Position and Movement LESSON BREAKDOWN
Week 11			Number and Place Value: Roman Numerals LESSON BREAKDOWN
Week 12			Calculations: Further Multiplication and Division LESSON BREAKDOWN

Maths Scheme of Work – Year 5



PRIMARY MATHS SERIES – YEAR 5 AT A GLANCE

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 1 000 000 LESSON BREAKDOWN	Fractions, Decimals and Percentages: Fractions LESSON BREAKDOWN	Geometry – Position and Direction: Position and Movement LESSON BREAKDOWN
Week 2			Measurement: Measurements LESSON BREAKDOWN
Week 3			
Week 4	Calculations: Addition and Subtraction LESSON BREAKDOWN	Mid-year (A) Tests and Remediation	Measurement: Area and Perimeter LESSON BREAKDOWN
Week 5			
Week 6	Calculations: Multiplication and Division LESSON BREAKDOWN	Fractions, Decimals and Percentages: Decimals LESSON BREAKDOWN	Measurement: Volume LESSON BREAKDOWN
Week 7			
Week 8		Fractions, Decimals and Percentages: Percentage LESSON BREAKDOWN	
Week 9			
Week 10	Calculations: Word Problems LESSON BREAKDOWN	Geometry – Properties of Shapes: Geometry LESSON BREAKDOWN	Number and Place Value: Roman Numerals LESSON BREAKDOWN
Week 11	Statistics: Graphs LESSON BREAKDOWN		Review and Revision
Week 12			End-of-year (B) Tests and Remediation

Maths Scheme of Work – Year 6



PRIMARY MATHS SERIES – YEAR 6 AT A GLANCE

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Week 1	Number and Place Value: Numbers to 10 Million LESSON BREAKDOWN	Measurement: Measurements LESSON BREAKDOWN	Statistics: Graphs and Averages LESSON BREAKDOWN
Week 2	Calculations: Four Operations on Whole Numbers LESSON BREAKDOWN	Word Problems LESSON BREAKDOWN	
Week 3		Mid-year (A) Tests and Remediation	Number and Place Value: Negative Numbers LESSON BREAKDOWN
Week 4		Fractions, Decimals and Percentages: Percentage LESSON BREAKDOWN	SATs
Week 5		Ratio and Proportion: Ratio LESSON BREAKDOWN	Measurement: Volume LESSON BREAKDOWN
Week 6	Fractions, Decimals and Percentages: Fractions LESSON BREAKDOWN	Algebra: Algebra LESSON BREAKDOWN	Geometry – Properties and Shapes: Geometry LESSON BREAKDOWN
Week 7			
Week 8			Geometry – Position and Direction: Position and Movement LESSON BREAKDOWN
Week 9	Fractions, Decimals and Percentages: Decimals LESSON BREAKDOWN	Measurement: Area and Perimeter LESSON BREAKDOWN	Statistics: Graphs and Averages LESSON BREAKDOWN
Week 10			Revisit Topics
Week 11		Geometry – Properties and Shapes: Geometry LESSON BREAKDOWN	Revision and End-of-year (B) Tests
Week 12	Measurement: Measurements LESSON BREAKDOWN	Geometry – Position and Direction: Position and Movement LESSON BREAKDOWN	Revisit Topics