MATHS — NO PROBLEM! FOUNDATIONS

ABOUT THE PROGRAMME

Maths — No Problem! Foundations is a complete Reception programme that includes Workbook Journals, Picture Books and online Teacher Guides with printable resource sheets, all in one package.

Maths — No Problem! Foundations is a one-year UK curriculum maths course for Reception developed with a deep maths-mastery focus and with genuine attention to learning core principles through embedded play.

It is produced by the same award-winning team that brought you the Maths — No Problem! Primary Series, a programme approved by the Department for Education and one of the few judged as meeting the rigorous quality guidance published by the National Centre for Excellence in the Teaching of Mathematics. Maths — No Problem! Foundations is developed by maths mastery experts including Judy Hornigold, our lead author. Dr Yeap Ban Har, a world-renowned expert in Singapore maths, directed the design of the Picture Books and James Allan Hermanson authored the stories.

TOPIC AND ACTIVITY OVERVIEW

Term 1

This Term 1 overview shows week-by-week the areas of learning and strands that are the main focus for your class. The relevant Early Learning Goal is also given, with all the activities connecting to, and building upon, the statutory framework. We have also included a suggestion for which of the picture books you might use, though they can of course be used for all strands!

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	Week 1	Week 2	Week 3	Week 4
Maths — No Problem! Area of learning	Number and Pattern	Number and Pattern	Shape, Space and Measure	Number and Pattern
Maths — No Problem! Strand	Matching	Sorting	Comparing and Ordering	AB Patterns
EYFS Early Learning Goal	Numerical Patterns: Compare quantities up to 10 in different contexts.	Numerical Patterns: Compare quantities up to 10 in different contexts.	Numerical Patterns: Compare quantities up to 10 in different contexts. Explore and represent patterns within numbers up to 10. … rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures	Numerical Patterns: Explore and represent patterns within numbers up to 10.
Activities	1. Simple Matching 2. Matching by Function 3. Matching by Number 4. Matching Different Orientations 5. Matching by Other Properties	1. Simple Sorting 2. Sorting Shapes 3. Identifying Sets 4. Finding Sorting Rules 5. Matching Amounts	1. Sort and Compare 2. Ordering from Shortest to Tallest 3. Investigating Height 4. Comparing Lengths 5. Ordering by Time	1. Spotting Patterns Around Us 2. Exploring Abstract Patterns 3. Patterns Using 10 Objects 4. Finding the Unit of Repeat 5. Exploring Non-Linear Patterns
Picture book link	Rosy Red (Matching)	Magic Oven (Sorting)	Magic Oven (Sequencing)	Rosy Red (Patterns)

	Week 5	Week 6	Week 7	Week 8
Maths — No Problem! Area of learning	Number and Pattern	Number and Pattern	Shape, Space and Measure	Number and Pattern
Maths— No Problem! Strand	Counting	Counting	Time	Composition of Numbers up to Five
EYFS Early Learning Goal	Number: Have a deep understanding of numbers up to 10.	Number: Have a deep understanding of numbers up to 10. Numerical Patterns: Compare quantities up to 10 in different contexts.	Numerical Patterns: Explore and represent patterns within numbers up to 10 … rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures	Number: Have a deep understanding of numbers up to 10 Subitise
Activities	1. Teddy Bears' Picnic 2. Finding 5 3. Counting Teddies and Bees 4. Counting Actions 5. Counting in Five Frames	1. Comparing Numbers of Objects 2. Comparing Numbers 3. Comparing Groups 4. Counting with Towers 5. Identifying Representations of Five	1. Day and Night 2. Ordering Events in the Day 3. Days of the Week 4. Birthdays 5. Making Fruit Caterpillars	1. Exploring Representations of 1 2. Exploring Representations of 2 3. Exploring Representations of 3 4. Exploring Representations of 4 5. Exploring Representations of 5
Picture book link	Magic Oven (Counting to 5)	Magic Oven (Counting to 5)	Rosy Red (Ordering events)	Magic Oven (Numbers to 5)

	Week 9	Week 10	Week 11	Week 12
Maths — No Problem! Area of learning	Number and Pattern	Shape, Space and Measure	Shape, Space and Measure	Shape, Space and Measure
Maths — No Problem! Strand	Composition of Numbers up to 5	2D Shapes	2D Shapes	Positional Language
EYFS Early Learning Goal	Number: Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5	Number: Have a deep understanding of numbers up to 10 ... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures	... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures	... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures
Activities	1. Making 5 2. Identifying 5 3. Constructing Models of 5 4. Breaking Apart 5 5. Making Number Stories with 5	1. Comparing 2D Shapes 2. Comparing Squares and Rectangles 3. Identifying Triangles 4. Identifying Squares 5. Triangles and Squares	1. Identifying Rectangles 2. Making Rectangles 3. Identifying Circles 4. Making Figures using 2D Shapes 5. Making Figures using 2D Shapes (Partner Work)	1. The Greatest Gymnast of All 2. Navigating an Obstacle Course 3. Locating Items in the Classroom 4. Rosie's Walk 5. Finding 2D Shapes in 3D Shapes
Picture book link	Rosy Red (Addition within 5)	This N That (2D shapes)	This N That (2D shapes)	This N That (Combining shapes, positional language)

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Topic and Activity Overview:

Term 2

This Term 2 overview shows week-by-week the areas of learning and strands that are the main focus for your class. The relevant Early Learning Goal is also given, with all the activities connecting to, and building upon, the statutory framework. We have also included a suggestion for which of the picture books you might use, though they can of course be used for all strands!

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	Week 1	Week 2	Week 3	Week 4
Maths — No Problem! Area of learning	Number and Pattern	Number and Pattern	Number and Pattern	Number and Pattern
Maths — No Problem! Strand	Counting	Counting and Ordering	Counting	Addition
EYFS Early Learning Goal	Number: Have a deep understanding of numbers up to 10, including the composition of each number.	Numerical patterns: Compare quantities up to 10 in different contexts.	Numerical patterns: Compare quantities up to 10 in different contexts.	Number: Have a deep understanding of numbers up to 10, including the composition of each number.
Activities	1. Zero Book 2. Visualising Zero 3. Zero Game 4. 1 Fewer Than 5. Adding and Subtracting Zero	1. Counting Forwards 2. Counting Backwards 3. Ordering Numbers 4. Position in a Queue 5. Running Races Outdoors	1. Introduce the Five Frame 2. Changing the Amount in the Frame 3. Introduce the Ten Frame 4. Changing the Amount in the Frame 5. Conservation of Number	1. Adding to 5 2. Adding to 10 3. Part Part Whole and Comparison 4. Using a Ten Frame 5. Adding by Counting On
Picture book link	Magic Oven (Counting)	Rosy Red (Counting)	Magic Oven (Five and Ten Frames)	Rosy Red (Counting On)

	Week 5	Week 6	Week 7	Week 8
Maths — No Problem! Area of learning	Number and Pattern	Number and Pattern	Number and Pattern	Number and Pattern
Maths — No Problem! Strand	Comparing and Ordering	Counting	Counting	Patterns
EYFS Early Learning Goal	Numerical patterns: Compare quantities up to 10 in different contexts. Number: Subitise up to 5.	Number: Have a deep understanding of numbers up to 10. Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	Number: Have a deep understanding of numbers up to 10. Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	Numerical patterns: Explore and represent patterns within numbers up to 10.
Activities	1. Comparing Quantities of Similar Items 2. Comparing Quantities of Different Sized Items 3. Perceptual and Conceptual Subitising 4. 1 More, 1 Fewer on a Ten Frame and Ordering 5. Conceptual Subitising	1. Sharing 2. Identifying Groups 3. Number Bonds 4. Making 6 – Hidden Objects 5. Making Number Stories	1. Number Bonds to 7 2. Number Bonds to 8 3. Number Bonds to 10 4. Partitioning Into More Than 2 Parts 5. Making Number Stories	1. Recognise and Describe Patterns 2. Extend a Pattern 3. Create a Pattern 4. Spot Mistakes in Patterns 5. Abstract Patterns
Picture book link	Playmates (Subitising, Ordering)	Rosy Red (Number Bonds)	Magic Oven (Making 10)	Rosy Red (Patterns)

	Week 9	Week 10	Week 11	Week 12
Maths — No Problem! Area of learning	Shape, Space and Measure	Shape, Space and Measure	Shape, Space and Measure	Shape, Space and Measure
Maths — No Problem! Strand	Measuring lengths and heights	Capacity - developing language	2D Shapes	3D Shapes
EYFS Early Learning Goal	... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.	... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.	... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.	... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.
Activities	1. Non-Standard Units 2. Body Parts 3. Using a Ruler 4. Comparing Heights 5. Estimating and Measuring	1. Empty and Full 2. Empty, Full and Half-Full 3. Empty, Full and Half-Full, Nearly Full and Nearly Empty 4. Comparing Capacity 5. Estimating Capacity	1. Tangram Cat 2. Guess My Shape 3. Find My Shape 4. Describing Shapes 5. Filling a Space	1. Cube 2. Cuboid 3. Cylinder 4. Sphere 5. Creating and Copying 3D Constructions
Picture book link	Playmates (Measuring)	This ‘n That (Capacity)	This ‘n That (2D shapes)	This ‘n That (3D Shapes)

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Topic and Activity Overview:

Term 3

This Term 3 overview shows week-by-week the areas of learning and strands that are the main focus for your class. The relevant Early Learning Goal is also given, with all the activities connecting to, and building upon, the statutory framework. We have also included a suggestion for which of the picture books you might use, though they can of course be used for all strands!

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Maths — No Problem! Area of learning	Number and Pattern	Number and Pattern	Number and Pattern	Number and Pattern
Maths — No Problem! Strand	Counting On to Add	Counting Forwards and Backwards	Counting to 20	Doubling
EYFS Early Learning Goal	Numerical patterns: Explore and represent patterns within numbers up to 10; Compare quantities up to 10 in different contexts.	Numerical patterns: Explore and represent patterns within numbers up to 10; Compare quantities up to 10 in different contexts.	Number: Have a deep understanding of number to 10. Numerical patterns: Compare quantities up to 10 in different contexts.	Numerical patterns: Explore and represent patterns within numbers up to 10.
Activities	1. Counting Sequences 2. Counting On from 5 3. Adding On a Ten Frame 4. Counting On from Any Number 5. Counting On from a Hidden Number	1. Counting Backwards 2. Counting Back from 10 3. Finding 1 More and 1 Less 4. Find the Quantity of a Hidden Collection 5. Finding the Unknown Amount	1. Counting to 20 Forwards and Backwards 2. Making Numbers 1–20 3. Different Representations of Numbers 11–20 4. 1 More, 1 Less 5. Ordering Numbers to 20	1. Exploring the Term Double 2. Doubling with Fingers 3. Doubling on a Five Frame to a Ten Frame 4. Recognising Doubles 5. Doubles and Not Doubles
Picture Book link	Magic Oven (Counting On)	Rosy Red (Counting On and Back)	Magic Oven (Counting to 20)	Playmates (Double Numbers)

	Week 5	Week 6	Week 7	Week 8
Maths — No Problem! Area of learning	Number and Pattern	Number and Pattern	Shape, Space and Measure	Shape, Space and Measure
Maths — No Problem! Strand	Halving and Sharing	Odds and Evens	Mass	Volume and Capacity
EYFS Early Learning Goal	Number: Have a deep understanding of number to 10. Numerical patterns: Compare quantities up to 10 in different contexts; Explore and represent patterns within numbers up to 10.	Numerical patterns: Explore and represent patterns within numbers up to 10.	... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. Numerical patterns: Compare quantities up to 10 in different contexts.	... rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.
Activities	1. Equal Sharing 2. Halving 3. Halving as the Opposite of Doubling 4. Halving Patterns 5. Sharing Between More Than 2 People	1. Understanding Odd and Even Numbers 2. Finding Odd and Even Numbers 3. Using Ten Frames to Show Odds and Evens 4. Pairs 5. Adding and Subtracting 1	1. Heavy and Light 2. Exploring Mass 3. Comparing Masses 4. Cooking 5. Using Non-Standard Units to Measure Mass	1. Describing Different Volumes of Liquids 2. Finding the Volume of Liquid in a Container 3. Comparing Capacities 4. Capacity of Everyday Objects 5. Quantifying Capacity
Picture Book link	This 'n That (Grouping and Sharing)	This 'n That (Sorting)	Magic Oven (Mass)	This 'n That (Capacity)

	Week 9	Week 10	Week 11	Week 12
Maths — No Problem! Area of learning	Shape, Space and Measure	Number and Pattern	Number and Pattern; Shape, Space and Measure	Number and Pattern
Maths — No Problem! Strand	Money	Data	All	Word Problems
EYFS Early Learning Goal	… rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. Number: Automatically recall number bonds up to 5. Numerical patterns: Compare quantities up to 10 in different contexts.	Number: Have a deep understanding of number to 10. Numerical patterns: Compare quantities up to 10 in different contexts; Explore and represent patterns within numbers up to 10.	Developing a strong grounding in number. … rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures.	Developing a strong grounding in number.
Activities	1. Recognising Coins 2. Shopping with Coins 3. Combining Coins 4. Sharing Money Equally 5. Giving Change	1. Pictograms 2. Collecting Data 3. Interpreting Data 4. Recording Data 5. Tally Charts	1. Combinations of Coins 2. Estimating Height 3. Constructing Shapes from 2D Shapes 4. Combinations of Numbers 5. Finding Routes	1. Numberless Word Problems 2. Understanding the Problem 3. Addition Word Problems 4. Subtraction Word Problems 5. Creating Word Problems
Picture Book link	Rosy Red (Addition and Subtraction)	Playmates (Collecting Data)	All four Picture Books can be used to reinforce learning across the strands.	All four Picture Books can be used as a starting point for word problems.