

YEARLY OVERVIEW OF MATHS COVERAGE: 2021-2022



This document outlines the coverage for each year group.

At Birklands we believe that coverage in this way will ensure the aims (as listed below) of Math in the National Curriculum are achieved. In addition, this approach will give wider opportunity for mastery and working at greater depth.

The national curriculum for mathematics aims to ensure that all pupils:

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 apply knowledge rapidly and accurately.

reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language

can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

At Birklands we have agreed that the different aspects of problem solving will be inter-woven through all the blocks, through reasoning, word problems and open-ended challenges. During these activities pupils will have the opportunity to independently communicate/ show their mathematical thinking.

When planning all staff will use White Rose Maths Hub mastery materials, Focus Maths, NRich, NCTEM, Power Maths and I see reasoning materials to support teaching and learning.

SIX KEY AREAS OF EARLY MATHEMATICS LEARNING

Progression documents:

Autumn 1	Child Led Exploration	Child Led Exploration	Cardinality & Counting	Cardinality & Counting	Cardinality & Counting	Comparison	Comparison	Pattern
Autumn 2	Shape & Space	Cardinality & Counting	Composition	Composition	Measures	Measures		
Spring 1	Cardinality & Counting	Cardinality & Counting	Comparison	Comparison	Pattern	Composition		
Spring 2	Composition	Shape & Space	Shape & Space	Cardinality & Counting	Cardinality & Counting			
Summer 1	Measures	Cardinality & Counting	Composition	Composition	Measures	Comparison	Comparison	
Summer 2	Cardinality & Counting	Composition	Pattern	Comparison	Shape & Space	Shape & Space		

Cardinality & Counting: <https://www.ncetm.org.uk/media/zpujdwv4/typical-progression-cardinality-and-counting.pdf>

Comparison: <https://www.ncetm.org.uk/media/wvagcfqm/typical-progression-comparison.pdf>

Composition: <https://www.ncetm.org.uk/media/a5cetjqq/typical-progression-composition.pdf>

Shape & Space: <https://www.ncetm.org.uk/media/4uljty3/typical-progression-shape-and-space.pdf>

Pattern: <https://www.ncetm.org.uk/media/5csbtyon/typical-progression-pattern.pdf>

Measures: <https://www.ncetm.org.uk/media/v51dhp3r/typical-progression-measures.pdf>

Reception Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	
Autumn	Getting to know you <ul style="list-style-type: none">- Key times of the day- Class routines- Positional language			Just like me! <ul style="list-style-type: none">- Match and sort- Compare amounts- Compare mass, size and capacity- Exploring pattern			It's me 1, 2, 3! <ul style="list-style-type: none">-Representing, comparing and compositokn of 1, 2 and 3- Circles and triangles- Positional language			Light and dark <ul style="list-style-type: none">- Representing numbers to 5- One more, one less- Shapes with four sides- Time			Alive in 5! <ul style="list-style-type: none">- Introducing zero- Comparing numbers to five- Composition of 4 and 5- Comparing mass and capacity		Assess-ment week
Spring	Alive in 5! <ul style="list-style-type: none">- Introducing zero- Comparing numbers to five- Composition of 4 and 5 Comparing mass and capacity		Growing 6, 7, 8! <ul style="list-style-type: none">- 6, 7 and 8- Making pairs- Combining two groups- Length and height- Time			Building 9 and 10 <ul style="list-style-type: none">- 9 and 10- Comparing numbers to 10- Length and height- Time			Consolidation						
Summer	To 20 and beyond <ul style="list-style-type: none">- Building numbers beyond 10- Counting patterns beyond 10- Spatial reasoning- Match, rotate, manipulate			First, then, now <ul style="list-style-type: none">- Spatial reasoning- Compose and decompose			Find my pattern <ul style="list-style-type: none">- Special reasoning- Visualise and build			On the move <ul style="list-style-type: none">- Deepening understanding- Patterns and reasoning- Spatial reasoning- Mapping			Assessment week		

Year 1 Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place value				Addition and subtraction (including money)						Shape			Assessment week
Spring	Measures (Length, height, mass and volume)				Multiplication and division				Fractions		Assessment week			
Summer	Fractions	Time		Statistics		Position and direction		Reasoning and problem solving: Four operations					Assessment week	

Year 1-2 Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place value				Addition and subtraction (including money)						Shape			Assessment week
Spring	Measures (Length, height, mass, temperature and volume)				Multiplication and division				Fractions		Assessment week			
Summer	Fractions	Time		Statistics	Assessment week KS1 SATS			Position and direction		Reasoning and problem solving: Four operations				

Year 2 Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place value				Addition and subtraction (including money)						Shape			Assessment week
Spring	Measures (Length, height, mass, temperature and volume)				Multiplication and division				Fractions		Assessment week			
Summer	Fractions	Time		Statistics		KS1 SATS		Position and direction		Reasoning and problem solving: Four operations				

Year 3 Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place value					Addition & subtraction, including money						Measures: mass & volume		Assessment week
Spring	Multiplication & division							Geometry: Properties of shape, angles/lines & turns			Assessment week			
Summer	Fractions				Time			Measures: length & perimeter			Statistics		Assessment week	

Year 4 Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Number & Place value				Measures: Money		Addition & Subtraction				Measures: Time, including roman numerals		Statistics	Assessment week
Spring	Multiplication & division						Geometry, including properties of shapes & position/direction				Assessment week			
Summer	Fractions & Decimals								Measures: Conversations		Measures: Length, perimeter, area		Statistics	Assessment week

Year 5 Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place value				Addition & subtraction				Geometry: Properties of shape		Geometry: Position/ Direction	Statistics		Assessment week
Spring	Multiplication & Division					Fractions					Assessment week			
Summer	Measures: Volume	Decimals & Percentage						Measures: Conversion		Measures: Perimeter & Area		+/-/ x/ ÷	Assessment week	

Year 6 Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place value		Addition, subtraction, multiplication & division			Assessment week	Geometry: properties of shape & position/ direction			Measure: perimeter, area & volume		Ratio		Measure: conversion
Spring	Algebra		FDP equivalents	Fractions			Decimals		Percentages		Assessment week			
Summer	Statistics		Retrieval/ Recap		End of KS2 SATs	Post SATs project								