



	Autumn Term Spring Term Summer Term							
	FS1	FS2	Y1	Y2	Y3	Y4	Y5	Y6
Place value	Recite numbers to 10 and recognise colours and shapes in the environment. Count objects carefully, recognise shapes and talk about everyday routines. Count to 20, compare quantities and explore shapes using mathematical language. Compare groups, recognise patterns and use shapes in different contexts. Count beyond 20, explore composition of numbers and describe shape properties.	Match, sort and compare objects, quantities and measures. Recognise, represent and compare numbers 1–3. Develop secure understanding of numbers to 5. Develop secure understanding of numbers to 5, including zero Develop understanding of numbers 6–8, doubles and odd and even numbers. Develop secure understanding of numbers to 10, including number bonds and doubles. Count, represent and compare numbers beyond 10	Count, represent, compare and order numbers within 10 using concrete, pictorial and abstract representations. Develop understanding of place value to 20, including counting, comparing and ordering numbers Recognise tens and ones and use place value knowledge to represent and compare numbers to 50. Count, compare and represent numbers to 100 using tens and ones.	Develop secure understanding of place value within 100, including partitioning, comparing and ordering numbers.	Develop understanding of place value within 1000, including partitioning, ordering and counting in multiples.	Develop secure understanding of place value within 10,000, including rounding and Roman numerals.	Develop understanding of place value in numbers up to 1,000,000, including rounding and powers of 10. Interpret, compare and calculate with negative numbers in context.	Develop fluency in reading, comparing and rounding numbers up to 10,000,000, including negative numbers.
Addition and subtraction		Solve addition and subtraction problems through practical experiences.	Use number bonds and part-whole relationships to solve addition and subtraction problems within 10. Use efficient strategies and number bonds to solve addition and subtraction problems within 20.	Use mental and written methods to solve addition and subtraction problems within 100.	Use mental and formal written methods to solve addition and subtraction problems with increasing accuracy.	Use efficient mental and formal written methods to solve addition and subtraction problems with 4-digit numbers.	Use efficient mental and written methods to solve multi-step addition and subtraction problems.	Apply efficient mental and written methods to solve multi-step problems involving all four operations.
Multiplication and division		Explore sharing, grouping and doubles through practical activities.	Explore multiplication and division through equal groups, arrays, sharing and grouping.	Use multiplication and division facts to solve problems involving equal groups, arrays and sharing.	Recall and apply multiplication and division facts for the 3, 4 and 8 times tables. Use multiplication and division strategies to solve calculations and problems involving scaling and remainders.	Recall multiplication and division facts to 12 × 12 and apply them to calculations and problem-solving. Use formal written methods and factor knowledge to solve multiplication and division problems.	Apply knowledge of multiples, factors, prime numbers and formal methods in multiplication and division. Use formal written methods to solve increasingly complex multiplication and division problems.	Apply efficient mental and written methods to solve multi-step problems involving all four operations.
Times Tables			2. 5. 10	1, 2. 5. 10	1, 2, 3, 4, 5, 8, 10	1, 2, 3, 4, 5, 6, 8, 9, 10, 11. 12	1, 2, 3, 4, 5, 6, 8, 9, 10, 11. 12	1, 2, 3, 4, 5, 6, 8, 9, 10, 11. 12

Beeston Primary Maths Progression



Fraction, decimals and percentages			Recognise and find halves and quarters of shapes and quantities.	Recognise, find and compare fractions of shapes and quantities.	Recognise, compare and represent unit and non-unit fractions. Add, subtract and reason with fractions within one whole.	Compare, convert and calculate with fractions, including mixed and improper fractions. Recognise and represent tenths and hundredths as decimals and fractions. Compare, order and round decimals and relate decimals to fractions.	Compare, order and calculate with fractions, including mixed and improper fractions. Calculate fractions of quantities and use fractions as operators in problem-solving. Recognise equivalence between fractions, decimals and percentages and apply this understanding in context. Use efficient strategies to calculate with decimals and understand place value relationships.	Simplify, compare and calculate with fractions using equivalent fractions. Calculate fluently with decimals using all four operations and place value understanding.
Measure: Money			Recognise coins and notes and use them to count and compare amounts.	Recognise, compare and calculate with money to solve practical problems.	Add, subtract and solve practical problems involving money.	Estimate, compare and calculate amounts of money using decimal notation.		
Measure: Length and height		Explore, compare and describe measures and simple patterns Compare length, height and time using mathematical language.	Compare and measure length and height using standard and non-standard units.	Measure, compare and calculate lengths and heights using standard units.	Measure, compare and calculate length and perimeter using appropriate units.	Measure, compare and calculate perimeter using standard units.	Calculate perimeter and area of rectilinear and compound shapes. Convert between metric and imperial units and solve problems involving measure.	Convert between units of measure and solve problems involving metric and imperial measures. Calculate perimeter, area and volume using appropriate formulae and reasoning.
Measure: Mass, capacity and temperature		Compare mass and capacity using practical experiences.	Compare and measure mass and capacity using practical equipment and mathematical vocabulary.	Measure and compare mass, capacity and temperature using appropriate units and equipment.	Measure, compare and calculate mass, capacity and volume using standard units.		Convert between metric and imperial units and solve problems involving measure. Estimate and compare volume and capacity using cubic units.	Convert between units of measure and solve problems involving metric and imperial measures.
Measure: Time		Sequence familiar events and routines through time.	Sequence events and tell the time to the hour and half past.	Tell and write the time to five minutes and solve problems involving time.	Tell, compare and calculate time using analogue and digital clocks.	Read, write and convert between analogue, digital and 24-hour times.		
Shape	Recite numbers to 10 and recognise colours and shapes in the environment. Count objects carefully, recognise shapes and talk about everyday routines. Count to 20, compare quantities and explore shapes using mathematical language. Count beyond 20, explore composition of numbers and describe shape properties.	Identify, describe and compare circles and triangles. Identify and explore shapes with 4 sides. Identify, describe and explore 2D and 3D shapes and patterns. Compose, decompose and manipulate shapes to create arrangements.	Recognise, name and sort common 2D and 3D shapes using their properties.	Identify, describe and compare the properties of 2D and 3D shapes.	Identify, compare and describe angles and properties of 2D and 3D shapes.	Understand area as the amount of space within a shape and calculate area by counting squares. Classify shapes and angles using geometric properties and symmetry.	Measure, classify and calculate angles and identify properties of polygons and 3D shapes.	Calculate perimeter, area and volume using appropriate formulae and reasoning. Use properties of shapes and angle relationships to draw, classify and solve geometric problems. Use coordinates to describe position and direction and accurately translate and reflect shapes on a coordinate grid.

Beeston Primary Maths Progression



Statistics				Collect, represent and interpret data using charts, tables and pictograms.	Collect, present and interpret data using charts, pictograms and tables.	Interpret and present data using charts, graphs and tables.	Interpret and present data using line graphs, tables and timetables.	Interpret, construct and analyse graphs, charts and averages to solve problems.
Position and direction		Use spatial reasoning to build, describe and map familiar spaces.	Describe position, movement and turns using mathematical language.	Describe movement, direction and turns using precise mathematical vocabulary.		Describe and plot coordinates and translate shapes on a grid.	Use coordinates, translation and reflection to describe position and movement.	
Ratio and proportion								Use ratio and proportion to compare quantities and solve real-life problems.
Algebra								Form and solve equations and use algebraic notation to represent relationships.
Patterns	Recite numbers to 10 and recognise colours and shapes in the environment. Compare groups, recognise patterns and use shapes in different contexts.	Explore, compare and describe measures and simple patterns Identify patterns and relationships across mathematical concepts						