

Scheme of Learning and Assessments

BLPA Mathematics

2023-24



Reception – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Number: To 5			Number: Comparing groups within 5		Shape: (3D &2D)	
Autumn 2	Shape: (3D &2D)	Number: Change within 5		Calculations: Bonds within 5	Space	Interventions	
Spring 1	Number: To 10		Number: Comparing numbers within 10	Calculations: Addition to 10	Measure: Length, height, weight		
Spring 2	Calculations: Number bonds to 10		Calculations: Subtraction	Exploring Pattern		Interventions	
Summer 1	Calculations: counting on/counting back		Number: to 20	Numerical patterns			
Summer 2	Shape: composing and decomposing	Measure: volume/capacity	Sorting	Measurement: Time	Project/ Interventions		

Year 1 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Number: Place Value and part-whole (Numbers to 10)			Number: Addition and Subtraction (within 10)			
Autumn 2	Number: Addition and Subtraction (within 10) revisit	Geometry: Shape (2D and 3D)	Number: Place Value (Numbers to 20)				Catch up / Interventions
Spring 1	Calculations: Addition to 20	Calculations: subtraction within 20		PiXL Spring Paper		Number: Place value (Numbers to 50)	
				Number: Place value (Numbers to 50)			
Spring 2	PiXL Spring Paper		Measurement: Weight and Volume		Catch up/interventions (Revise place value to 50 and calculations within 20)		
	Measurement: Length and Height						
Summer 1	Calculations: Multiplication and Division			Halves and Quarters	PiXL Summer Papers		
					Position and Direction	Catch up / Interventions	
Summer 2	PiXL Summer Papers		Measurement: Time		Measurement: Money		Interventions: Addition, Subtraction, Multiplication, Division
	Number: Place value to 100						

Year 2 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Autumn 1	Number: Place Value (numbers to 100)		Calculations: Addition and Subtraction (Including addition of two 2 digit numbers)					
Autumn 2	Y2 2019 SATs papers			Calculations: Multiplication and Division	Calculations: Multiplication and Division	Measurement: Time (unit 13)	Catch up / Interventions	SATS STYLE QUESTIONS
	Measurement: Money		Calculations: Multiplication and Division					
Spring 1	Calculation: Multiplication and Division		Statistics: Tally/Pictograms		Measurement: Length and Height	Catch up /interventions		
Spring 2	Geometry: Properties of Shape (2D and 3D)	Y2 2022 SATs papers						Fractions
		Geometry: Properties of Shape (2D and 3D)		Fractions				
Summer 1	Geometry: Position and Direction	Interventions / Revision	2KS1 SATs				Problem solving and efficient methods /Revision	
Summer 2	Measurement: Time		Measurement: Weight, Volume, Temperature		Revise Fractions	Revision - Fluency of calculation		

Year 3 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Number: Place value (numbers to 1000)			PiXL Autumn Papers			
				Calculations: Addition and Subtraction (to 3 digit and 2 digit numbers)	Calculations: Addition and Subtraction (to 3 digit and 2 digit numbers)		
Autumn 2	Calculations: Addition and subtraction (to 3 digit and 3 digit numbers)		Calculations: Multiplication and Division			Catch up/Interventions	
Spring 1	Calculations: Multiplication and Division			Measurement: Money	PiXL Spring Papers		
					Statistics: Pictograms, Bar Charts, Tables	Measurement: Length	
Spring 2	PiXL Papers		Fractions (1)			Catch up/ Interventions	
	Measurement: Length (cont'd)	Fractions (1)					
Summer 1	Fractions (2)			Measurement: Time		PiXL Summer Papers	
						Geometry: Angles and Properties of shapes	
Summer 2	PiXL Summer Papers			Measurement: Capacity	Revision- Fluency of calculation and Fractions		
	Geometry: Angles and Properties of shapes (cont'd)		Measurement: Mass				

Year 4 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Number: Place value – order and compare 4 digit numbers			PiXL Autumn Papers			
				Number: Place value – order and compare 4 digit numbers, rounding, negative numbers	Number: Place value – order and compare 4 digit numbers, rounding,	Calculations: Addition and Subtraction (4 digit numbers)	
Autumn 2	Calculations: Addition and Subtraction (4 digit numbers)		Measurement: Perimeter	Calculations: Multiplication and Division (by 0,1,10,100 and 6,7,8,9,10,11,12)			Revision / Intervention
Spring 1	Calculations: Multiplication and Division (by 2 and 3digit numbers)			Measurement: Area	PiXL Spring Papers		
					Fractions: Tenths, hundredths, equivalent, simplifying	Revision / Interventions	
Spring 2	PiXL Papers		Fractions: Adding and Subtracting	Number: Decimals (tenths, hundredths)		Revision / Interventions	
	Fractions: Tenths, hundredths, equivalent, simplifying	Fractions: Adding and Subtracting					
Summer 1	Number: Decimals (comparing, ordering, rounding)		Measurement: Money		Measurement: Time	PiXL Summer Papers	
						Revision / Interventions	
Summer 2	PiXL Summer Papers Multiplication Tables check			Geometry: Position and Direction			Revision / Interventions
	Statistics: Charts, Tables, Line graphs	Geometry: Angles and 2D shapes					

Year 5 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7+
Autumn 1	Number: Place Value (to 100,000)		Number: Place Value (to 1,000,000)	Number: Place Value (to 1,000,000)	PiXL Autumn Papers Calculations: Addition and Subtraction (more than 4 digits, rounding, inverse operations)		
Autumn 2	Statistics: Graphs and Tables	Calculations: Multiplication and Division (factors, prime numbers, squares, cubes)		Measure: Area and Perimeter		Revise geometry from Y3/4	Revision / Interventions
Spring 1	Calculations: Multiplication and Division (up to 4 digits by 2 digits, division with remainders)			Fractions: comparing, ordering and division	PiXL Spring Papers Fractions: adding and subtracting		
Spring 2	PiXL Spring Papers		Fractions: Multiplying	Number: Decimals and Percentages			
	Fractions: adding and subtracting	Fractions: adding and subtracting					
Summer 1	Number: Decimals (adding, subtracting, multiplying and dividing)			Geometry: Properties of shapes (angles, protractor use)		PiXL Summer Papers Geometry: Properties of shapes (parallel and perpendicular lines, polygons)	
Summer 2	PiXL Summer Papers			Measurement: Converting units	Measurement: Volume and Capacity	Revision/Interventions	
	Geometry: Position and Direction (reflections, translation, Co-ordinates)	Measurement: Converting units					

Year 6 – Yearly Overview

If further SATs papers are required use those that have not been scheduled into the assessment calendar.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7 +	
Autumn 1	Number: place value to 10,000,000	Calculations: Four Operations (1)		Calculations: Four Operations (2)		Revision (key areas)		
Autumn 2	Y6 2017 SATs papers				Fractions (continued)	Geometry – Position and Direction		
	Fractions: simplifying, comparing and ordering, adding and subtracting (1)	Fractions: simplifying, comparing and ordering, adding and subtracting (1)	Fractions: multiplying and dividing					
Spring 1	Number: Decimals		Y6 2018 SATs papers					
			Number: Percentages		Ratio and Proportion			
Spring 2	Y6 2022 SATs papers				Geometry: Properties of shape (unit 13)	Algebra		
	Measurement: converting/imperial and metric	Measurement: perimeter, area and volume		Geometry: Properties of shape (unit 13)				
Summer 1	Bespoke Revision			2022 SATS WEEK	Number: Problem solving			
Summer 2	Number: Problem solving		Statistics	Residential	Statistics	Transition Maths		

Year 6 – Small Steps

Number and Place Value

- Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit
- Round any whole number to a required degree of accuracy

Calculations: The four operations

- Add and subtract whole numbers
- Multiply up to a 4-digit number by a 2-digit number
- Short division
- Long Division
- Factors, multiples and primes
- Squares and cubes
- BIDFMAS
- Mental calculations and estimation
- Reasoning from known facts

Fractions

- Simplify fractions
- Fractions on a number line
- Compare and order fractions (using numerator and denominator)
- Add and subtract fractions
- Multiply fractions by a whole number
- Multiply fractions by a fraction
- Divide a fraction by a whole number
- Fraction of an amount

Decimals

- Three decimal places
- Multiply by 10, 100 and 1000
- Divide by 10, 100, 1000
- Multiply decimals by integers
- Divide decimals by integers
- Decimals as fractions
- Fraction to decimals

Converting Units

- Metric measures

- Converting metric measures
- Calculate with metric measures
- Mile and kilometres
- Imperial measures

Percentages

- Fraction to percentages
- FDP equivalence
- Percentage of amount
- Percentages – missing value
- Percentage increase and decrease
- Order FDP

Negative Numbers

- Use negative numbers in context
- Calculate intervals across zero

Perimeter, Area and Volume

- Shapes – same area different perimeters and vice versa
- Area and perimeter
- Area of a triangle
- Area of a parallelogram
- Volume – counting cubes
- Volume of a cuboid

Properties of shapes

- Measure with a protractor
- Introduce angles
- Calculate angles
- Vertically opposite angles
- Angles – triangles
- Angles – special cases
- Find missing angles
- Angles – quadrilateral
- Angles – regular polygons
- Draw shapes
- Draw nets

Position and direction

- Coordinates in the first quadrant
- Plotting coordinates
- Translations

- Reflections
- Reasoning about shape with coordinates

Ratio

- Using ratio language
- Ratio and fractions
- Introduce the ratio symbol
- Calculating ratio
- Using scale factors
- Ratio and proportion problems

Algebra

- Find a rule – one step
- Find a rule – two step
- Use an algebraic rule
- Substitution
- Formulae
- Word problems
- Solve simple one step equations
- Solve two step equations

Statistics

- Read and interpret line graphs
- Draw lines graphs
- Use line graphs to solve problems
- Circles
- Read and interpret pie charts
- Pie charts with percentages
- Draw pie charts
- The mean