

Patrington
Maths Overview
2021/2022

Year 1
Maths
Overview
2021/2022

1	1	2	3	4	5	6	7	8	9	10	11	12	13
C1	Number: Place Value within 10 NCETM: 1.1 - 1.4				Number: Addition and Subtraction within 10 NCETM: 1.5 - 1.7				NTS	Geometry: Shape		Composition of numbers. NCETM: 1.8	
BS													
C2	Number: Composition of numbers 20-100 and 11-20 NCETM 1.9 and 1.10			Number: Addition and Subtraction within 20 NCETM: 1.9 and 1.10		Multiplication and Division (2s 5s, 10s) Including money NCETM 2.1			NTS	Measurement: Length and Height		Measurement: Weight and Volume	
BS													
C3	Multiplication and Division (2s 5s, 10s) Including money NCETM 2.1		Number: Fractions NCETM: 3.1 and 3.2		G: P&D	Measurement: Time		Number: A&S including measures	NTS/SA Ts	Number: A&S Multiplication and division including measures		Whole Year recaps and gap filling	
BS													

Year	Measurement:		Geometry:		
1	Compare, describe and solve practical problems and measure and begin to record the for:	Lengths and heights	Properties of shapes:	recognise and name common 2-D and 3-D shapes,	
		Mass/weight	Position and Direction:	describe position, direction and movement, including whole, half, quarter and three quarter turns	
		Capacity and volume			
		Time (hours, minutes seconds)			
	Money:	Recognise and know the value of different denominations of coins and notes.			
	Time:	Sequence events in chronological order using language.			
		Recognise and use language relating to dates, including days of the week, weeks, months and years.			
		tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.			

Year 2
Maths
Overview
2021/2022

2	1	2	3	4	5	6	7	8	9	10	11	12	13
C1	Number Place Value Recap Y1 objectives Plus NC objectives		Number: Addition and Subtraction NCETM: 1.11 - 1.16					Measure: Money	NTS	Measure: Money	Multi and Div NCETM: 2.2 - 2.6		
BS													
C2	Multi and Div	Statistics	Length and Height	Geometry: Properties of shapes	Fractions NCETM: 3.3 - 3.5			NTS	M: Length and Height	Measure: capacity, mass, temperature	G: P&D		
BS													
C3	Measure: Time		Consolidation: Application			SATS	Consolidation: Application	NTS	Consolidation: Application				
BS													

Year	Measurement:		Geometry:	
2	<p>Choose and use appropriate standard units to estimate and measure:</p> <p>Compare and order the following, using >, < and =</p>	length/height in any direction (m/cm) to the nearest appropriate unit, using rulers,	<p>Properties of shapes:</p>	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
		mass (kg/g);to the nearest appropriate unit, using scales,		identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
		temperature (°C) to the nearest appropriate unit, using thermometers		identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
		capacity (litres/ml) to the nearest appropriate unit, using measuring vessels.		compare and sort common 2-D and 3-D shapes and everyday objects.
	<p>Money:</p>	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value	<p>Position and Direction</p>	order and arrange combinations of mathematical objects in patterns and sequences
		find different combinations of coins that equal the same amounts of money		use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).
		solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change		
	<p>Time:</p>	compare and sequence intervals of time	<p>Statistics:</p>	
		tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times		interpret and construct simple pictograms, tally charts, block diagrams and simple tables
		know the number of minutes in an hour and the number of hours in a day		ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
			ask and answer questions about totalling and comparing categorical data.	

Year 3
Maths
Overview
2021/2022

	3	1	2	3	4	5	6	7	8	9	10	11	12	13
C1		Number and Place Value		Number: Addition and Subtraction NCETM: 1.17 - 1.21					M & D NCETM 2.7 - 2.9	NTS	M & D NCETM 2.7 - 2.9			
BS														
C2		Measurement: Money		Statistics			Measurement: Length and Perimeter		Fractions NCETM 3.1	NTS	Fractions NCETM 3.1 - 3.4			
BS														
C3		Measurement: Time:			Measurement: Mass and Capacity			Geometry		NTS	Whole Year recaps, gap filling and application			
BS														

Gap Fill Additive Facts where necessary and link throughout learning.

Year 4
Maths
Overview
2021/2022

4	1	2	3	4	5	6	7	8	9	10	11	12	13
C1	Number, Place Value, Addition and Subtraction NCETM 1.22, 1.23 and 1.24							Measurement: Money: NCETM 1.25	NTS	Measurement: Length and perimeter NCETM 2.16	Multiplication and Division NCETM 2.10- 2.15		
BS													
C2	Multiplication and Division NCETM 2.10-2.15, 2.17		Measurement: Area NCETM: 2.16		Fractions NCETM: 3.5 and 3.6			NTS	Decimals Recapping and applying skills in NCETM: 1.22, 1.23, 1.25, 1.25				
BS													
C3	Measurement: Time:	Measurement: Capacity	Statistics		Geometry: Properties of shape and Position and Direction			Whole Year recaps, gap filling and application	NTS	Whole Year recaps, gap filling and application			
BS													

Year	Measurement:	Geometry:		
4	Convert between different units of measure	Properties of shapes: :	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	
	Estimate, compare and calculate different measures, including money in pounds and pence		identify acute and obtuse angles and compare and order angles up to two right angles by size	
	Shape		find the area of rectilinear shapes by counting squares	identify lines of symmetry in 2-D shapes presented in different orientations
			measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	complete a simple symmetric figure with respect to a specific line of symmetry
	Time	read, write and convert time between analogue and digital 12- and 24-hour clocks	Position and Direction	describe positions on a 2-D grid as coordinates in the first quadrant
		solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days		describe movements between positions as translations of a given unit to the left/right and up/down
	Statistics:	plot specified points and draw sides to complete a given polygon.		
	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.		solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graph	

Year 5
Maths
Overview
2021/2022

Year	Measurement:		Geometry:		
5	convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)		Properties of shapes: : 	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	
	understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints			know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	
	estimate volume [for example, using 1 cm ³ blocks to build cuboids (including cubes)] and capacity [for example, using water]			draw given angles, and measure them in degrees (o)	
	solve problems involving converting between units of time, and use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.			identify: angles at a point and one whole turn (total 360o) angles at a point on a straight line and 2 1 a turn (total 180o) other multiples of 90o	
	Shape	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres		use the properties of rectangles to deduce related facts and find missing lengths and angles	
		calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes		distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	
	Statistics:			Position and Direction	identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
solve comparison, sum and difference problems using information presented in a line graph			complete, read and interpret information in tables, including timetables.		

Year 6
Maths
Overview
2021/2022

4	1	2	3	4	5	6	7	8	9	10	11	12	13
C1	Number, Place Value, Addition and Subtraction Recap learning from previous Years including application NCETM 1.30, 1.31				Multiplication and Division Recap previous years, methods and NCETM: 2.23-2.28 (including ratio and proportion)				ASSESS	Fractions, Decimals and Percentages Recap previous years and NCETM:2.29, 3.9, 3.10			
BS													
C2	Measure: Converting Units, Distance, Capacity, Weight, Volume, Area and Perimeter NCETM: 2.30				Measure: Time and Money		Geometry: Properties of shape and Position and Direction		ASSESS	Statistics		Number: Algebra	
BS													
C3	Whole Year recaps, gap filling and application.								ASSESS	Investigations and Enterprise			
BS													

Year	Measurement:		Geometry:	
6	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate		Properties of shapes:	draw 2-D shapes using given dimensions and angles
	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places			recognise, describe and build simple 3-D shapes, including making nets
	convert between miles and kilometres			compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
	Shape	recognise that shapes with the same areas can have different perimeters and vice versa		illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
		recognise when it is possible to use formulae for area and volume of shapes		recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units [for example, mm ³ and km ³].		Position and Direction	describe positions on the full coordinate grid (all four quadrants)	
calculate the area of parallelograms and triangles			draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	
	Statistics:	interpret and construct pie charts and line graphs and use these to solve problems		calculate and interpret the mean as an average.