

Year 4

BIA Mathematics
Term by Term
Scheme of Work



الأكاديمية الإسلامية البريطانية
BRITISH ISLAMIC
ACADEMY



Year 4 Overview August to May (1)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number – Place Value			Number- Addition and Subtraction			Number- Multiplication and Division				Measurement- Area	
Spring	Fractions				Time	Decimals				Measurement- Money		
Summer	Measures- Perimeter and Length	Geometry- Angles	Geometry- Shape and Symmetry		Geometry- Position and Direction		Statistics		Measurement- Area and Perimeter			

(1) Subject to change. Please visit the website or call-in for regular updates.

Term by Term Objectives



الأكاديمية الإسلامية البريطانية
BRITISH ISLAMIC
ACADEMY

Year 4

Year group	4	Term	Autumn
-------------------	----------	-------------	---------------

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<p><u>Number – place value</u> Count in multiples of 6, 7, 9. 25 and 1000.</p> <p>Find 1000 more or less than a given number.</p> <p>Count backwards through zero to include negative numbers.</p> <p>Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones)</p> <p>Order and compare numbers beyond 1000.</p> <p>Identify, represent and estimate numbers using different representations.</p> <p>Round any number to the nearest 10, 100 or 1000.</p> <p>Solve number and practical problems that involve all of the above and with increasingly large positive numbers.</p> <p>Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</p>			<p><u>Number- addition and subtraction</u> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</p> <p>Estimate and use inverse operations to check answers to a calculation.</p> <p>Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.</p>			<p><u>Number – multiplication and division</u> Recall and use multiplication and division facts for multiplication tables up to 12 x 12.</p> <p>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</p> <p>Recognise and use factor pairs and commutativity in mental calculations.</p> <p>Multiply two digit and three digit numbers by a one digit number using formal written layout.</p> <p>Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.</p>			<p><u>Measurement- Area</u> Find the area of rectilinear shapes by counting squares.</p>		

Term by Term Objectives



الأكاديمية الإسلامية البريطانية
BRITISH ISLAMIC
ACADEMY

Year 4

Year group	4	Term	Spring
------------	---	------	--------

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
<p><u>Fractions</u> Recognise and show, using diagrams, families of common equivalent fractions.</p> <p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</p> <p>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</p> <p>Add and subtract fractions with the same denominator.</p>				<p><u>Time</u> Convert between different units of measure eg hour to minute.</p> <p>Read, write & convert time between analogue and digital 12 and 14 hour clocks.</p> <p>Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</p>		<p><u>Decimals</u> Recognise and write decimal equivalents of any number of tenths or hundredths.</p> <p>Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$</p> <p>Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p> <p>Round decimals with one decimal place to the nearest whole number.</p> <p>Compare numbers with the same number of decimal places up to two decimal places.</p>			<p><u>Measurement- Money</u> Solve simple measure and money problems involving fractions and decimals to two decimal places.</p> <p>Estimate, compare and calculate different measures, including money in pounds and pence.</p>		<p>Time at the beginning or end of the term for consolidation, gap filling, seasonal activities, assessments, etc.</p>	

Term by Term Objectives



الأكاديمية الإسلامية البريطانية
BRITISH ISLAMIC
ACADEMY

Year 4

Year group	4	Term	Summer
------------	---	------	--------

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<p><u>Measures: Perimeter and Length</u> Convert between different units of measure eg kilometre to metre.</p> <p>Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m</p>	<p><u>Geometry: Angles</u> Identify acute and obtuse angles and compare and order angles up to two right angles by size.</p>	<p><u>Geometry: Shape and symmetry</u> Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</p> <p>Identify lines of symmetry in 2D shapes presented in different orientations.</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry.</p>	<p><u>Geometry- Position and Direction</u> Describe positions on a 2D grid as coordinates in the first quadrant.</p> <p>Describe movements between positions as translations of a given unit to the left/ right and up/ down.</p> <p>Plot specified points and draw sides to complete a given polygon.</p>	<p><u>Statistics</u> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p><u>Measurement: Area and Perimeter</u> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p> <p>Convert between different units of measure [for example, kilometre to metre]</p> <p>Find the area of rectilinear shapes by counting squares.</p>	<p>Time at the beginning or end of the term for consolidation, gap filling, seasonal activities, assessments, etc.</p>					