
		LTP for both cycle A and cycle B: Maths		
		Y7	Y8	Y9
Autumn 1	Key area of understanding	Number & place value Addition and subtraction	Number & place value Addition and subtraction	Number & place value Addition and subtraction
	Knowledge & skills development	Number and place value: <ul style="list-style-type: none"> count from 0 to and across 100, forward and backwards, beginning with 0 or 1, and from any given number Addition and subtraction: <ul style="list-style-type: none"> add and subtract 1-digit and 2-digit numbers to 20 (9 + 9, 18 - 9), including zero 	Number & place value: recognise the place value of each digit in a 2-digit number (tens, ones) and count in steps of 2, 3, 5 and 10, count in tens from any number, and give 10 more or less than a given number to 100 Addition and subtraction: recall and use number bonds and related subtraction facts within 20	Number & place value: compare and order numbers from 0 up to 100; use <, > and = signs. Arrange, read and write numbers in increasing and decreasing order Addition and subtraction: add and subtract numbers with up to two 2-digits using partitioning methods
Autumn 2	Key area of understanding	Measure Geometry Statistics	Measure Geometry Statistics	Measure Geometry Statistics
	Knowledge & skills development	Measure: measure and record using non-standard units Geometry: recognise and name common 2-D shapes, including: square, rectangle, circle and triangle Statistics: Read and interpret a simple pictogram	Measure: compare measurements –eg longer and shorter Geometry: identify and describe the properties of 2-D shapes Statistics: Sort objects using a Venn diagram	Measure: compare and order lengths, mass, volume/capacity and record the results using >, < and = Geometry: identify 2-D shapes on the surface of 3-D shapes, for example rectangle and square on a cuboid, circle on a cylinder, triangle on a pyramid Statistics: Begin to construct charts and graphs
Spring 1	Key area of understanding	Fractions Multiplication & division	Fractions Multiplication & division	Fractions Multiplication & division
	Knowledge & skills development	Fractions: demonstrate some understanding that 'share' requires them to distribute some of a group of objects and equally share concrete objects Multiplication & division: distinguish between 'one' and 'lots', when shown an example of a single object and a group of objects and begin to understand that multiplication is repeated addition	Fractions: recognise, name and write $\frac{1}{2}$ as one of two equal parts of an object, shape or quantity Multiplication & division: recall multiplication and division facts for the 2 multiplication tables and use the multiplication (x), division (÷) and equals (=) signs to read and write mathematical statements	Fractions: recognise, name and write $\frac{1}{4}$ and $\frac{3}{4}$ as parts of an object, shape or quantity Multiplication & division: write and calculate mathematical statements for multiplication and division for known multiplication tables
Spring 2	Key area of understanding	Measure Geometry Statistics	Measure Geometry Statistics	Measure Geometry Statistics
	Knowledge & skills development	Measure: begin to measure and record using standard units Geometry: describe and perform half a turn to the left and to the right Statistics: Begin to read and interpret a block graph	Measure: identify and use the correct measuring tool/vessel with a degree of accuracy Geometry: describe and perform a quarter and three quarter turn turn to the left and to the right Statistics: Sort objects using a Carroll diagram	Measure: begin to read relevant scales to the nearest numbered unit Geometry: recognise angles as a property of shape and associate angle as an amount of turning and begin to identify different types of lines Statistics: Continue to construct charts and graphs
Summer 1	Key area of understanding	Addition and subtraction Measure Geometry	Addition and subtraction Measure Geometry	Addition and subtraction Measure Geometry
	Knowledge & skills development	Addition & subtraction: add three 1-digit numbers Measure: measure and record using standard units Geometry: recognise and name common 3-D and 2-D shapes, including cube, pyramid and sphere	Addition & subtraction: begin to add and subtract numbers with up to two 2-digits Measure: choose and use appropriate measurements to estimate Geometry: identify and describe the properties of 3-D shapes including the number of edges, vertices and faces	Addition & subtraction: add and subtract numbers with up to two 2-digits including using column addition without carrying and column subtraction without Measure: read relevant scales to the nearest numbered unit Geometry: describe rotation as a turn and in terms of right angles for quarter and half turns (clock-wise and anti-

				clockwise), and movement in a straight line.
Summer 2	Key area of understanding	Multiplication & division Fractions Statistics	Multiplication & division Fractions Statistics	Multiplication & division Fractions Statistics
	Knowledge & skills development	Multiplication & division: recognise and write the multiplication symbol (x) and the division symbol (÷) in mathematical statements, calculating the answer with the teacher using concrete objects Fractions: recognise, name and write $\frac{1}{2}$ as one of two equal parts of an object Statistics: Begin to create a block graph	Multiplication & division: recall multiplication and division facts for the 5 and 10 multiplication tables and continue to use the multiplication (x), division (÷) and equals (=) signs to read and write mathematical statements Fractions: recognise, name and write $\frac{1}{4}$ and $\frac{3}{4}$ as parts of an object, shape Statistics: Interpret pictograms where the picture represents more than '1'	Multiplication & division: recognise and use the inverse relationship between multiplication and division to check calculations and ensure students can recognise and show that multiplication can be done in any order (commutative) and division cannot Fractions: recognise, name and write fractions $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{2}$, $\frac{2}{3}$ and $\frac{3}{4}$ of a whole Statistics: Extract and interpret information from a range of charts and tables and begin to work from a range scales

The above LTP demonstrates the progression and curriculum offer for the core of learners within the identified year group.

MTPs, that can be viewed and discussed upon request, provide in depth details for the full range of St Hugh's learners.

All students will also work weekly on their personalised number fluency development

		GCSE trajectory LTP for : Maths	
		Y10	Y11
Autumn 1	Key area of understanding	Properties of number Units of measure	Patterns and sequences Ratio and proportion
	Knowledge & skills development	Properties of number: <ul style="list-style-type: none"> Understand and use place value Order positive integers Apply the four operations, including formal written methods, to integers Recognise and use relationships between operations Use the concepts and vocabulary of prime numbers, factors (divisors) and multiples Units of measure: <ul style="list-style-type: none"> use standard units of measure and related concepts (length, area, volume/capacity, mass, time, money, etc.) measure line segments and angles in geometric figures, including interpreting maps and scale drawings 	Patterns and sequences: <ul style="list-style-type: none"> generate terms of a sequence from either a term-to-term or a position-to-term rule recognise and use sequences of triangular, square and cube numbers Ratio and proportion: <ul style="list-style-type: none"> use ratio notation, including reduction to simplest form understand and use proportion as equality of ratios relate ratios to fractions express the division of a quantity into two parts as a ratio
Autumn 2	Key area of understanding	Properties of 2D shapes Statistical diagrams	Constructions and Scale drawings Scatter graphs
	Knowledge & skills development	Properties of 2D shapes: <ul style="list-style-type: none"> use conventional terms and notations derive and apply the properties and definitions of: special types of quadrilaterals, including square, rectangle, parallelogram, trapezium, kite and rhombus; and triangles and other plane figures using appropriate language identify and apply circle definitions and properties Statistical diagrams: <ul style="list-style-type: none"> interpret and construct frequency tables, bar charts & pie charts 	Constructions and Scale drawings: <ul style="list-style-type: none"> use the standard conventions for labelling and referring to the sides and angles of triangles; draw diagrams from written description use the standard ruler and compass constructions Scatter graphs: <ul style="list-style-type: none"> apply statistics to describe a population use and interpret scatter graphs of bivariate data; recognise correlation and know that it does not indicate causation draw estimated lines of best fit
Spring 1	Key area of understanding	Negative numbers Perimeter and area	Percentages Compound measures
	Knowledge & skills development	Negative numbers: <ul style="list-style-type: none"> order positive and negative integers apply the four operations, including formal written methods, to integers, both positive and negative Perimeter and area: <ul style="list-style-type: none"> know and apply formulae to calculate area of: rectangles, rectilinear composite shapes area of triangles & parallelograms calculate the perimeters of 2D shapes, including composite shapes 	Percentages: <ul style="list-style-type: none"> Define percentage as 'number of parts per hundred Interpret fractions and percentages as operators Interpret percentages as a fraction or a decimal Compound measures: <ul style="list-style-type: none"> use standard units of mass, length, time, money and other measures (including standard compound measures) using decimal quantities where appropriate round numbers and measures to an appropriate degree of accuracy (e.g. to a specified number of decimal places or significant figures) change freely between related standard units (e.g. time, length, area, volume/capacity, mass) and compound units (e.g. speed, rates of pay, prices, density, pressure) in


Spring 2	Key area of understanding	3D shapes Averages and range	Transformation and vectors Algebraic expressions
	Knowledge & skills development	3D shapes: <ul style="list-style-type: none"> use conventional terms and notations: rotation symmetries identify properties of the faces, surfaces, edges and vertices of: cubes, cuboids, prisms, cylinders, pyramids, cones and spheres construct and interpret plans and elevations of 3D shapes Averages and range: <ul style="list-style-type: none"> interpret, analyse and compare the distributions of data sets appropriate graphical representation involving discrete, continuous and grouped data appropriate measures of central tendency (median, mean, mode and modal class) and spread apply statistics to describe a population 	Transformation and vectors: <ul style="list-style-type: none"> identify, describe and construct congruent and similar shapes, including on coordinate axes, by considering rotation, reflection, translation and enlargement (including fractional scale factors) apply addition and subtraction of vectors Algebraic expressions: use and interpret algebraic notation, including: <ul style="list-style-type: none"> ab in place of $a \times b$ $3y$ in place of $3 \times y$ a^2 in place of $a \times a$, a^3 in place of $a \times a \times a$
Summer 1	Key area of understanding	Working with decimals Accuracy and rounding	Solving and setting up equations
	Knowledge & skills development	Working with decimals: <ul style="list-style-type: none"> order positive and negative decimals use the symbols $=$, \neq, $<$, $>$, \leq, \geq understand and use place value recognise and use relationships between operations estimate answers; check calculations using approximation and estimation, including answers obtained using technology Accuracy and rounding: <ul style="list-style-type: none"> use standard units of mass, length, time, money and other measures (including standard compound measures) using decimal quantities where appropriate round numbers and measures to an appropriate degree of accuracy (e.g. to a specified number of decimal places or significant figures) use inequality notation to specify simple error intervals due to truncation or rounding 	Solving and setting up equations: <ul style="list-style-type: none"> Solve linear equations in one unknown algebraically (including those with the unknown on both sides of the equation) Revision
Summer 2	Key area of understanding	Fractions and mixed numbers Geometrical reasoning – Angle properties Probability	Revision and examinations
	Knowledge & skills development	Fractions and mixed numbers: <ul style="list-style-type: none"> order positive fractions apply the four operations, including formal written methods, simple fractions (proper and improper) express one quantity as a fraction of another, where the fraction is less than 1 or greater than 1 apply the four operations, including formal written methods, to mixed numbers both positive and negative; Geometrical reasoning – Angle properties: <ul style="list-style-type: none"> apply the properties of angles at a point, angles at a point on a straight line, vertically opposite angles understand and use alternate and corresponding angles on parallel lines derive and use the sum of angles in a triangle 	

		Probability: <ul style="list-style-type: none">• apply ideas of randomness, fairness and equally likely events to calculate expected outcomes of multiple future experiments• relate relative expected frequencies to theoretical probability, using appropriate language and the 0 – 1 probability scale	
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MTPs, that can be viewed and discussed upon request, provide in depth details for the full range of St Hugh's learners.


All students will also work weekly on their personalised number fluency development

		Entry level trajectory LTP for : Maths	
		Y10	Y11
Autumn 1	Key area of understanding	Number & place value Addition and subtraction	Number & place value Addition and subtraction
	Knowledge & skills development	Number & place value: recognise the place value of each digit in a 2-digit number (tens, ones) and count in steps of 2, 3, 5 and 10, count in tens from any number, and give 10 more or less than a given number to 100 Addition and subtraction: recall and use number bonds and related subtraction facts within 20	Number & place value: compare and order numbers from 0 up to 100; use <, > and = signs. Arrange, read and write numbers in increasing and decreasing order Addition and subtraction: add and subtract numbers with up to two 2-digits using partitioning methods
Autumn 2	Key area of understanding	Measure Geometry Statistics	Measure Geometry Statistics
	Knowledge & skills development	Measure: compare measurements –eg longer and shorter Geometry: identify and describe the properties of 2-D shapes Statistics: Sort objects using a Venn diagram	Measure: compare and order lengths, mass, volume/capacity and record the results using >, < and = Geometry: identify 2-D shapes on the surface of 3-D shapes, for example rectangle and square on a cuboid, circle on a cylinder, triangle on a pyramid Statistics: Begin to construct charts and graphs
Spring 1	Key area of understanding	Fractions Multiplication & division	Fractions Multiplication & division
	Knowledge & skills development	Fractions: recognise, name and write $\frac{1}{2}$ as one of two equal parts of an object, shape or quantity Multiplication & division: recall multiplication and division facts for the 2 multiplication tables and use the multiplication (x), division (\div) and equals (=) signs to read and write mathematical statements	Fractions: recognise, name and write $\frac{1}{4}$ and $\frac{3}{4}$ as parts of an object, shape or quantity Multiplication & division: write and calculate mathematical statements for multiplication and division for known multiplication tables
Spring 2	Key area of understanding	Measure Geometry Statistics	Measure Geometry Statistics
	Knowledge & skills development	Measure: identify and use the correct measuring tool/vessel with a degree of accuracy Geometry: describe and perform a quarter and three quarter turn turn to the left and to the right Statistics: Sort object using a Carroll diagram	Measure: begin to read relevant scales to the nearest numbered unit Geometry: recognise angles as a property of shape and associate angle as an amount of turning and begin to identify different types of lines Statistics: Continue to construct charts and graphs
Summer 1	Key area of understanding	Addition and subtraction Measure Geometry	Revision and assessment
	Knowledge & skills development	Addition & subtraction: begin to add and subtract numbers with up to two 2-digits Measure: choose and use appropriate measurements to estimate Geometry: identify and describe the properties of 3-D shapes including the number of edges, vertices and faces	
Summer 2	Key area of understanding	Multiplication & division Fractions Statistics	
	Knowledge & skills development	Multiplication & division: recall multiplication and division facts for the 5 and 10 multiplication tables and continue to use the multiplication (x), division (\div) and equals (=) signs to read and write mathematical statements Fractions: recognise, name and write $\frac{1}{4}$ and $\frac{3}{4}$ as parts of an object, shape Statistics: Interpret pictograms where the picture represents more than '1'	

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All students will also work weekly on their personalised number fluency development

		Entry level trajectory LTP for : Maths	
		Y12	Y13
Autumn 1	Key area of understanding	Number & place value Addition and subtraction	Number & place value Addition and subtraction
	Knowledge & skills development	Number & place value: recognise the place value of each digit in a 2-digit number (tens, ones) and count in steps of 2, 3, 5 and 10, count in tens from any number, and give 10 more or less than a given number to 100 Addition and subtraction: recall and use number bonds and related subtraction facts within 20	Number & place value: compare and order numbers from 0 up to 100; use <, > and = signs. Arrange, read and write numbers in increasing and decreasing order Addition and subtraction: add and subtract numbers with up to two 2-digits using partitioning methods
Autumn 2	Key area of understanding	Measure Geometry Statistics	Measure Geometry Statistics
	Knowledge & skills development	Measure: compare measurements –eg longer and shorter Geometry: identify and describe the properties of 2-D shapes Statistics: Sort objects using a Venn diagram	Measure: compare and order lengths, mass, volume/capacity and record the results using >, < and = Geometry: identify 2-D shapes on the surface of 3-D shapes, for example rectangle and square on a cuboid, circle on a cylinder, triangle on a pyramid Statistics: Begin to construct charts and graphs
Spring 1	Key area of understanding	Fractions Multiplication & division	Fractions Multiplication & division
	Knowledge & skills development	Fractions: recognise, name and write $\frac{1}{2}$ as one of two equal parts of an object, shape or quantity Multiplication & division: recall multiplication and division facts for the 2 multiplication tables and use the multiplication (x), division (\div) and equals (=) signs to read and write mathematical statements	Fractions: recognise, name and write $\frac{1}{4}$ and $\frac{3}{4}$ as parts of an object, shape or quantity Multiplication & division: write and calculate mathematical statements for multiplication and division for known multiplication tables
Spring 2	Key area of understanding	Measure Geometry Statistics	Measure Geometry Statistics
	Knowledge & skills development	Measure: identify and use the correct measuring tool/vessel with a degree of accuracy Geometry: describe and perform a quarter and three quarter turn to the left and to the right Statistics: Sort object using a Carroll diagram	Measure: begin to read relevant scales to the nearest numbered unit Geometry: recognise angles as a property of shape and associate angle as an amount of turning and begin to identify different types of lines Statistics: Continue to construct charts and graphs
Summer 1	Key area of understanding	Addition and subtraction Measure Geometry	Revision and assessment
	Knowledge & skills development	Addition & subtraction: begin to add and subtract numbers with up to two 2-digits Measure: choose and use appropriate measurements to estimate Geometry: identify and describe the properties of 3-D shapes including the number of edges, vertices and faces	
Summer 2	Key area of understanding	Multiplication & division Fractions Statistics	
	Knowledge & skills development	Multiplication & division: recall multiplication and division facts for the 5 and 10 multiplication tables and continue to use the multiplication (x), division (\div) and equals (=) signs to read and write mathematical statements Fractions: recognise, name and write $\frac{1}{4}$ and $\frac{3}{4}$ as parts of an object, shape Statistics: Interpret pictograms where the picture represents more than '1'	

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