Sixth Form Maths – Curriculum Map

	Entry 3	Functional Skills L1	Functional Skills L2
Autumn 1	• Count, reliably up to 100 items. • Read, write, order and compare numbers up to 200. • Recognise and sequence odd and even numbers up to 100. • Recognise and interpret the symbols +, -, x, ÷ and = appropriately. • Add and 2-digit numbers. • Approximate by rounding to the nearest 10 and use this rounded answer to check results.	• Count, read, write order and compare numbers up to 1000. • Add and subtract using three-digit whole numbers. • Divide three-digit whole numbers by single and double digit whole numbers and express remainders. • Multiply two-digit whole numbers by single and double digit whole numbers.	• Count, read, write order and compare large (up to one million). • Recognise and use positive and negative numbers, • Multiply and divide numbers and decimals by 10, 100 and 1000. • Use multiplication facts and make connections with division facts. • Use simple formulae expressed in words for one and two-step operations. • Calculate the squares of one-digit and two-digit numbers.
Autumn 2	• Multiply whole numbers in the range 0x0 to 12x12 (times tables) • Divide 2-digit whole numbers by single digit whole numbers and express remainders. • Know the number of hours in a day and weeks in a year. Be able to name and sequence. • Read and record time in common date formats, and read time displayed on analogue clocks in hours, half hours and quarter hours, and understand hours from a 24-hour digital clock.	• Approximate by rounding numbers less than 1000 to the nearest 10 or 100. • Recognise and continue linear sequences of numbers up to 100. • Read, measure and record time using am and pm. • Read time from analogue and 24-hour digital clocks in hours and minutes. • Read, write and use decimals up to two decimal places. • Calculate with money using decimal notation and express money in writing pounds and pence. • Recognise and continue linear sequences of numbers up to 100.	• Follow the order of precedence of operations. • Read, write, order and compare common fractions and mixed numbers. • Find fractions of whole number quantities or measurements. • Read, write, order and compare decimals up to three decimal places. • Add, subtract, multiply and divide decimals up to three decimal places.

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Spring 1	• Recognise simple fractions (halves, quarters and tenths) of whole numbers and shapes. • Read, write and decimals to one decimal place. • Calculate money in pence up to one pound and in whole pounds of multiple items and write with the correct symbols (£, p)	• Recognise and continue sequences that involve decimals. • Read, write and understand thirds, quarters, fifths and tenths, including equivalent forms. • Calculate percentages of quantities, including simple percentage increases and decreases by 5% and multiples thereof. • Estimate answers to calculations using fractions and decimals.	• Approximate by rounding to a whole number or to one or two decimal places. • Read, write, order and compare percentages in whole numbers. • Calculate percentages of quantities, including simple percentage increases and decreases by 5% and multiples thereof. • Estimate answers to calculations using fractions and decimals. • Recognise and calculate equivalences between common fractions, percentages and decimals.
Spring 2	• Read and compare positive temperatures. • Use measures of capacity including millilitres and litres, • Use Measures of weight including grams and kilograms, • Use metric measures of length including millimeters, centimeters, meters and kilometers,	• Use and compare measures of length, capacity, weight and temperature using metric or imperial units to the nearest labelled or unlabelled division. • Compare metric measures of length including millimetres, centimetres, metres and kilometres. Compare measures of weight including grams and kilograms.	• Work with simple ratio and direct proportions. • Calculate simple interest in multiples of 5% on amounts of money. • Calculate discounts in multiples of 5% on amounts of money. • Convert between units of length, weight, capacity, money and time, in the same system. • Recognise and make use of simple scales on maps and drawings
Summer 1	• Read and use simple scales to the nearest labelled division. • Recognise and name 2-D and 3-D shapes including pentagons, hexagons, cylinders, cuboids, pyramids and spheres. • Describe the properties of common 2-D and 3-D shapes including numbers of sides, corners, edges, faces, angles and base. • Use appropriate positional vocabulary to describe position and direction including between, inside, outside, middle, below, on top, forwards and backwards.	• Extract information from lists, tables, diagrams and charts and create frequency tables. • Find the mean and range of a set of quantities. • Interpret information, to make comparisons and record changes, from different formats including bar charts and simple line graphs. • Organise and represent information in appropriate ways including tables, diagrams, simple line graphs and bar charts.	• Calculate the area and perimeter of simple shapes including those that are made up of a combination of rectangles. • Calculate the volume of cubes and cuboids • Draw 2D shapes and demonstrate an understanding of line symmetry and knowledge of the relative size of angles. • Interpret plans, elevations and nets of simple 3-D shapes. • Use angles when describing position and direction, and measure angles in degrees.

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Summer 2	• Extract information from lists, tables, diagrams and bar charts. • Make numerical comparisons from bar charts. • Sort and classify objects using 2 criteria. • Take information from one format and represent the information in another format including use of bar charts.	• Use appropriate positional vocabulary to describe position and direction including eight compass points including full/half/quarter turns. • Use angles when describing position and direction, and measure angles in degrees. • Calculate the area and perimeter of simple shapes including those that are made up of a combination of rectangles. • Calculate the volume of cubes and cuboids	• Represent discrete data in tables, diagrams and charts including pie charts, bar charts and line graphs. • Group discrete data and represent grouped data graphically. • Find the mean and range of a set of quantities. • Understand probability on a scale of 0 (impossible) to 1(certain) and use probabilities to compare the likelihood of events. • Use equally likely outcomes to find the probabilities of simple events and express them as fractions.